

FIG. 1A

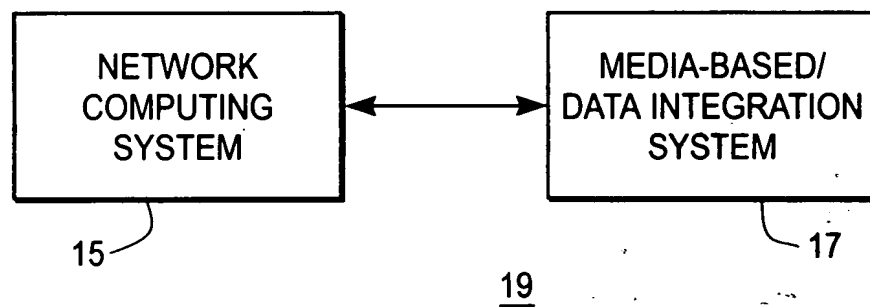


FIG. 1B

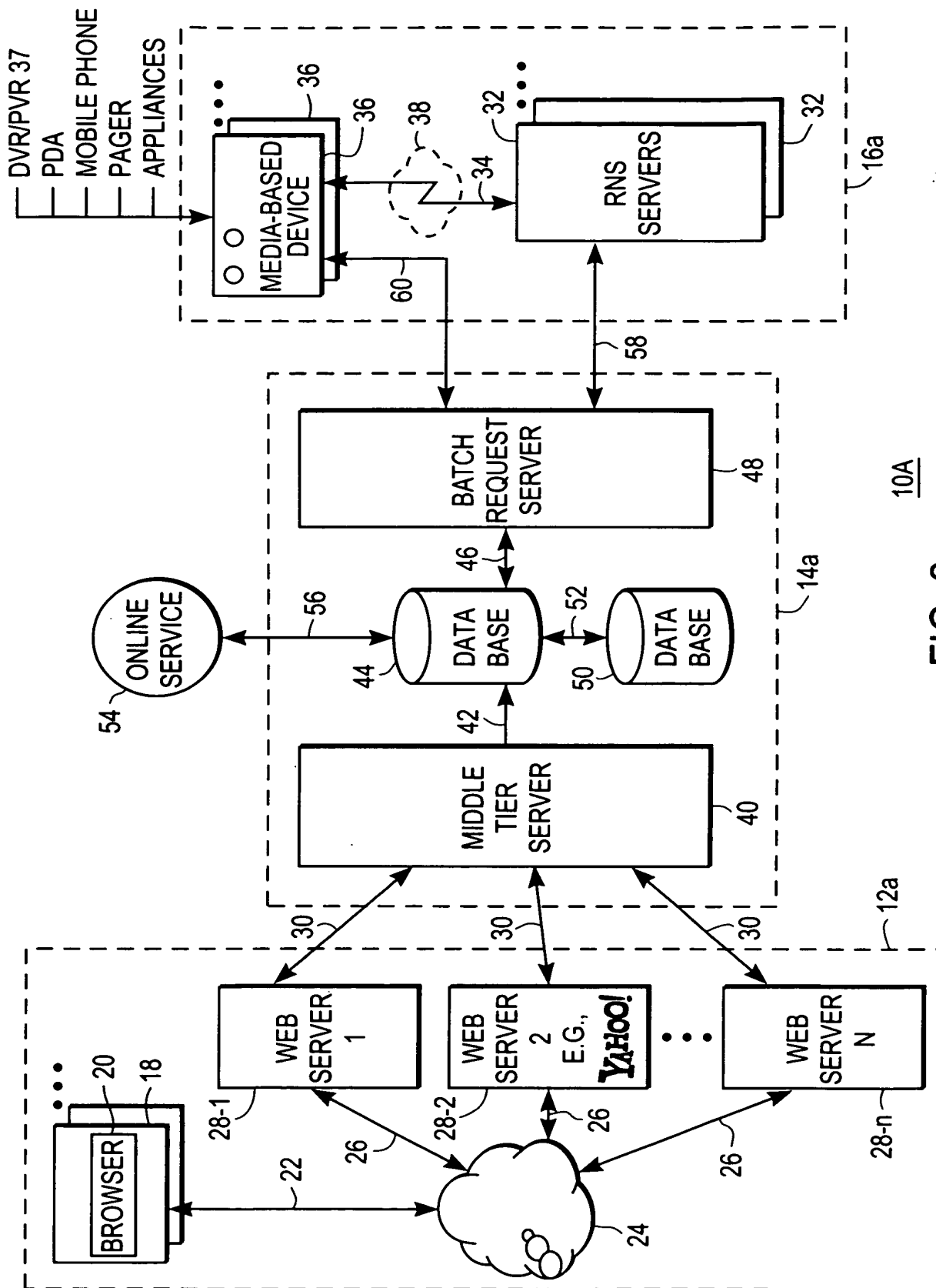


FIG. 2

10A

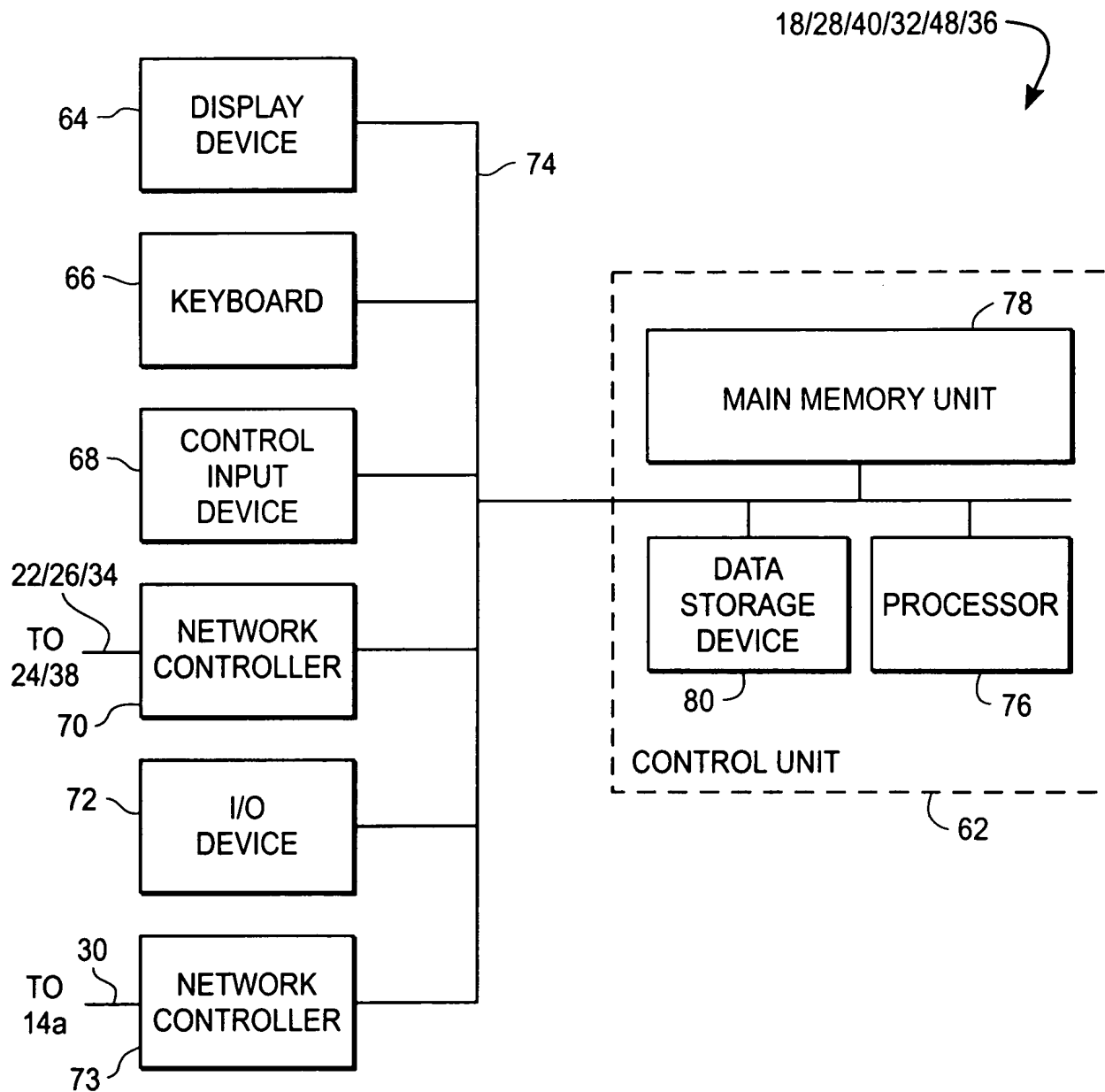


FIG. 3

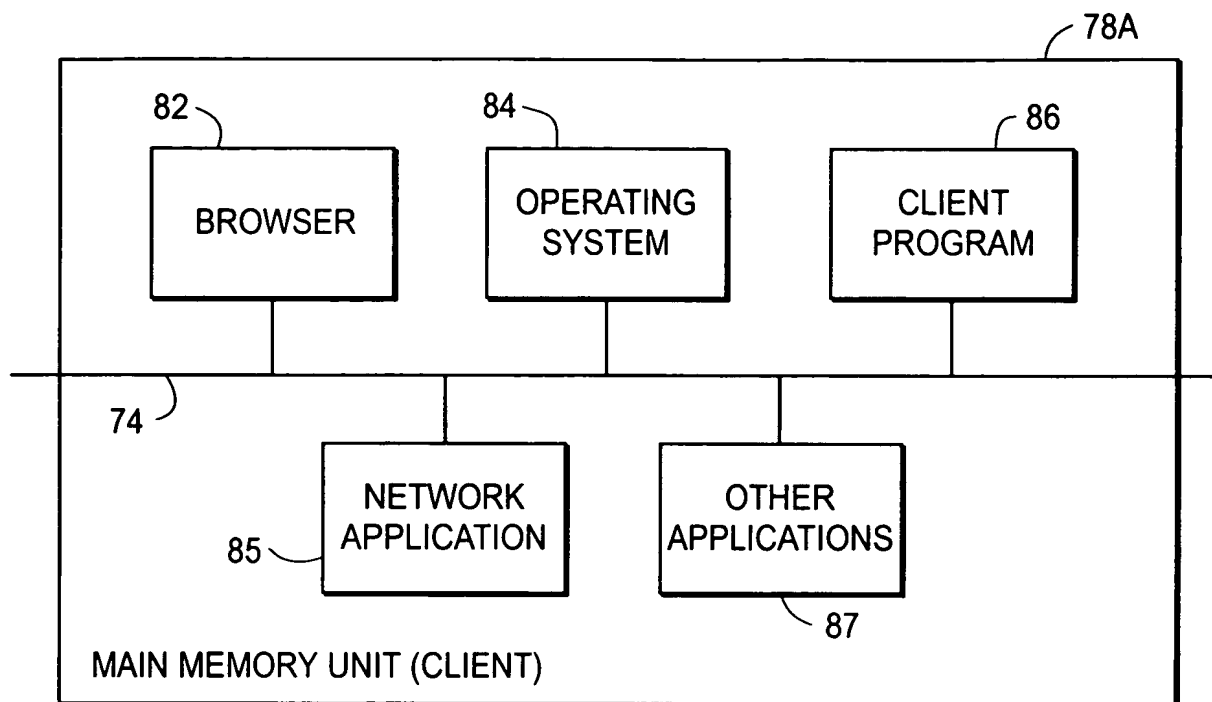


FIG. 4A

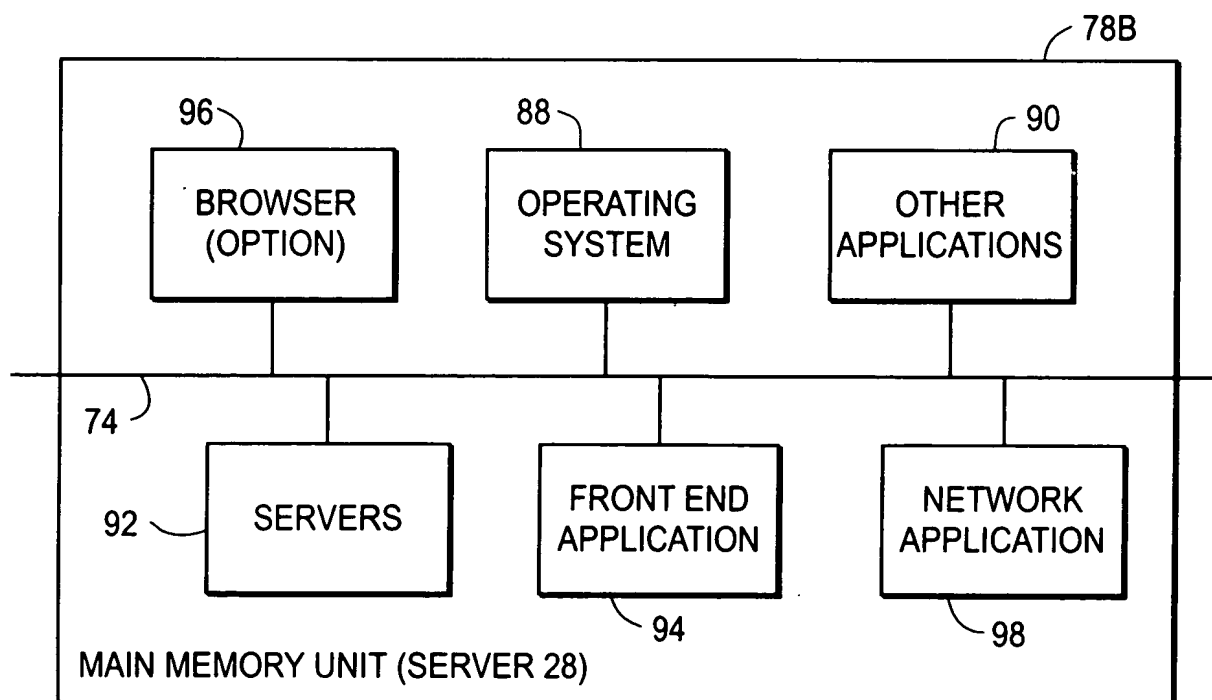


FIG. 4B

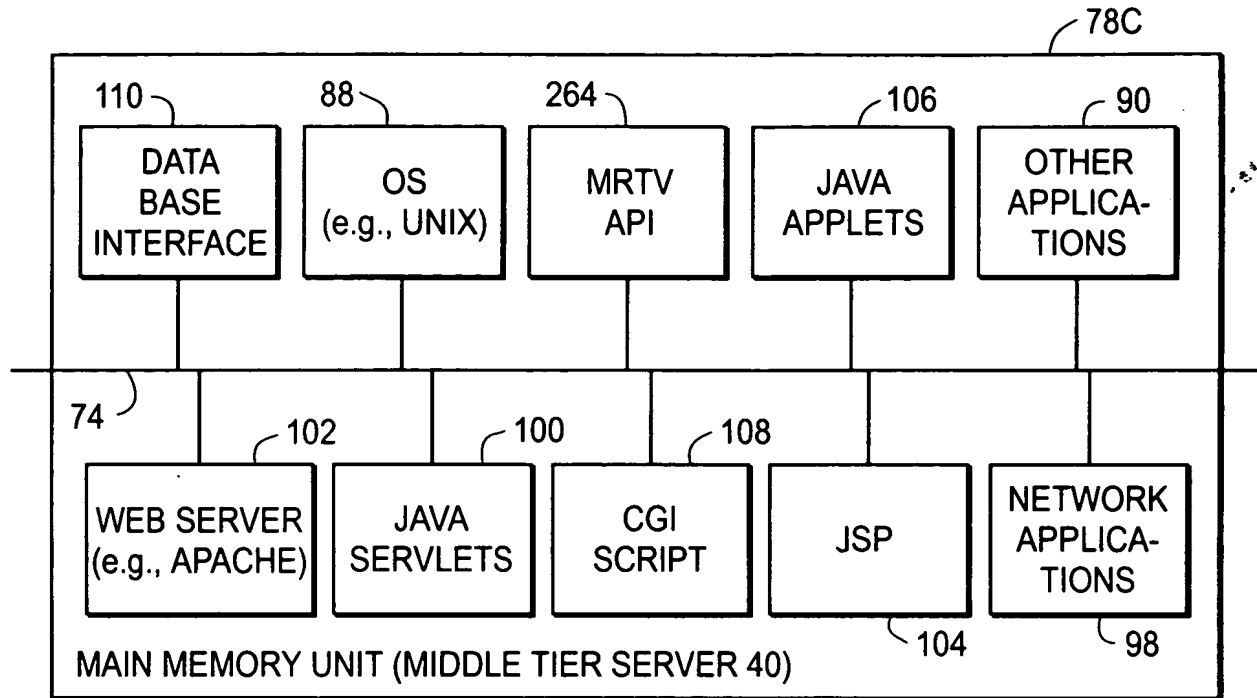


FIG. 4C

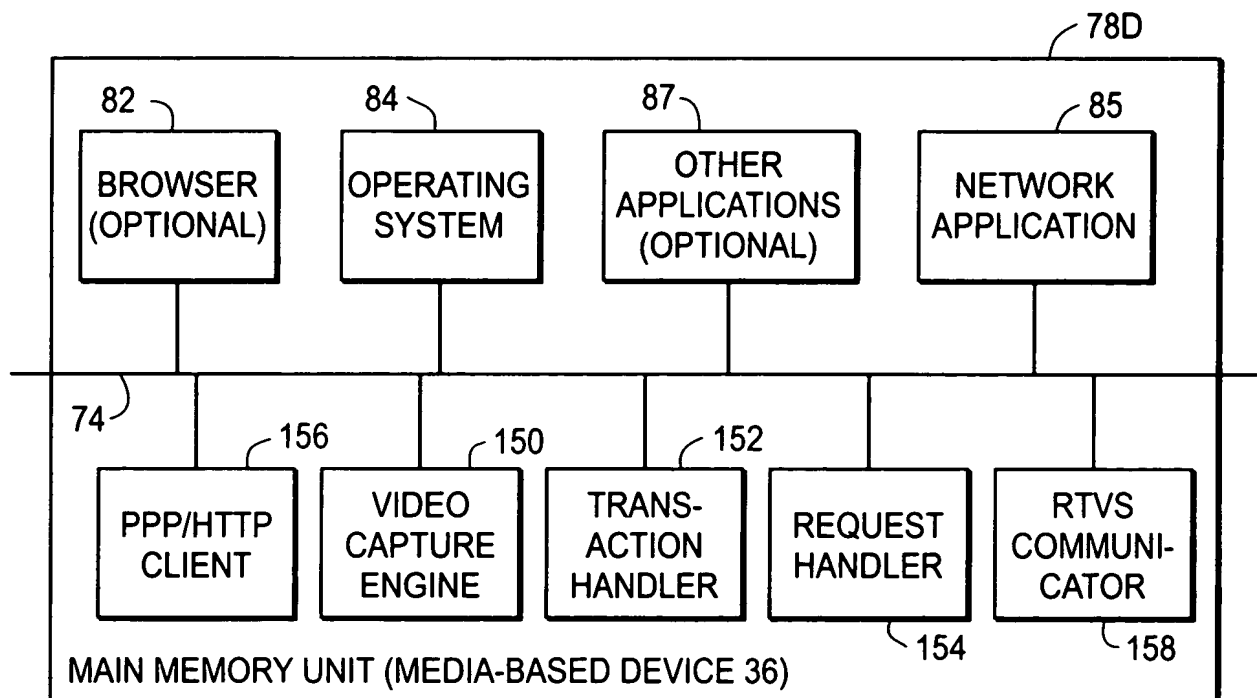


FIG. 4D

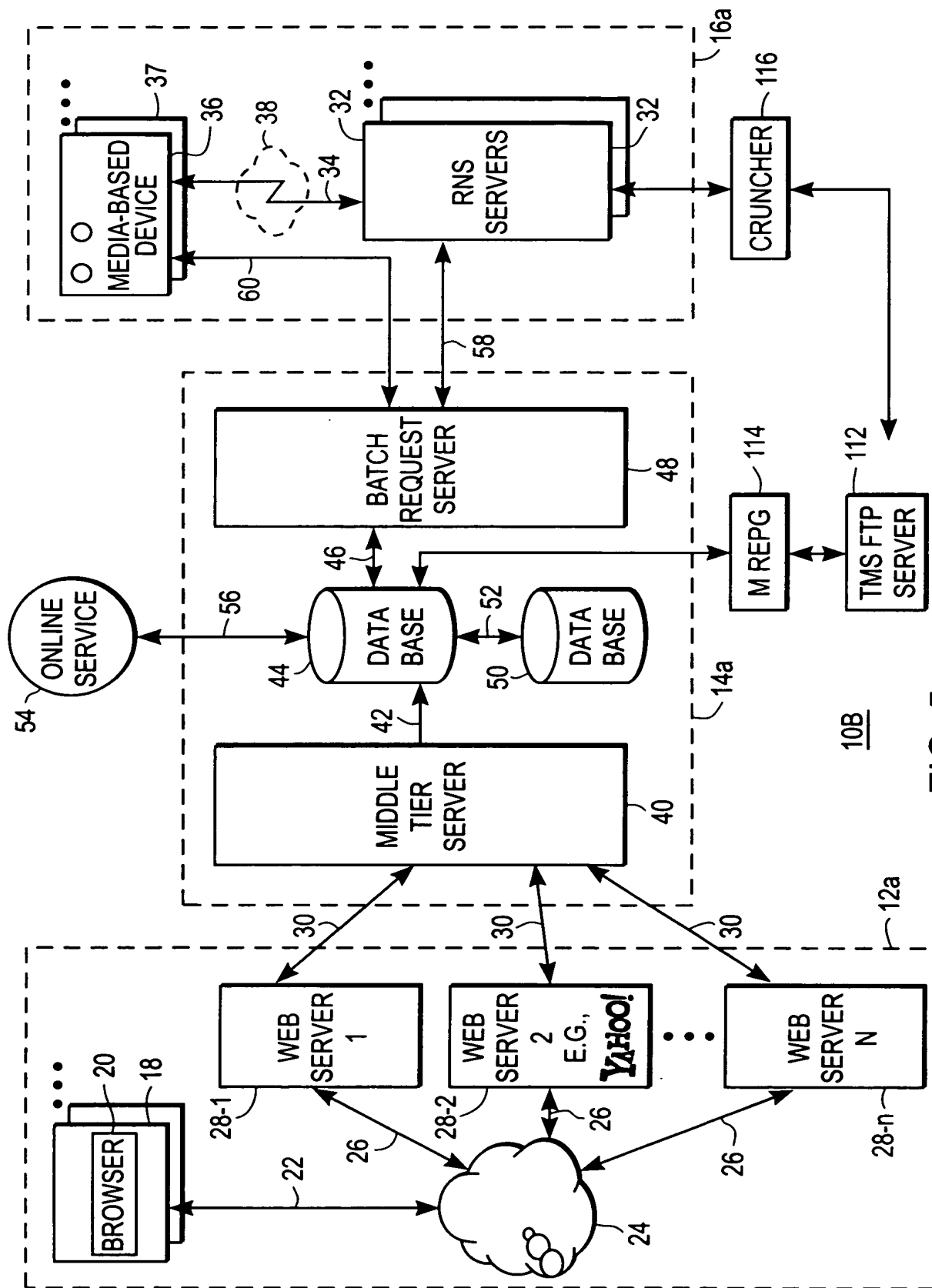


FIG. 5

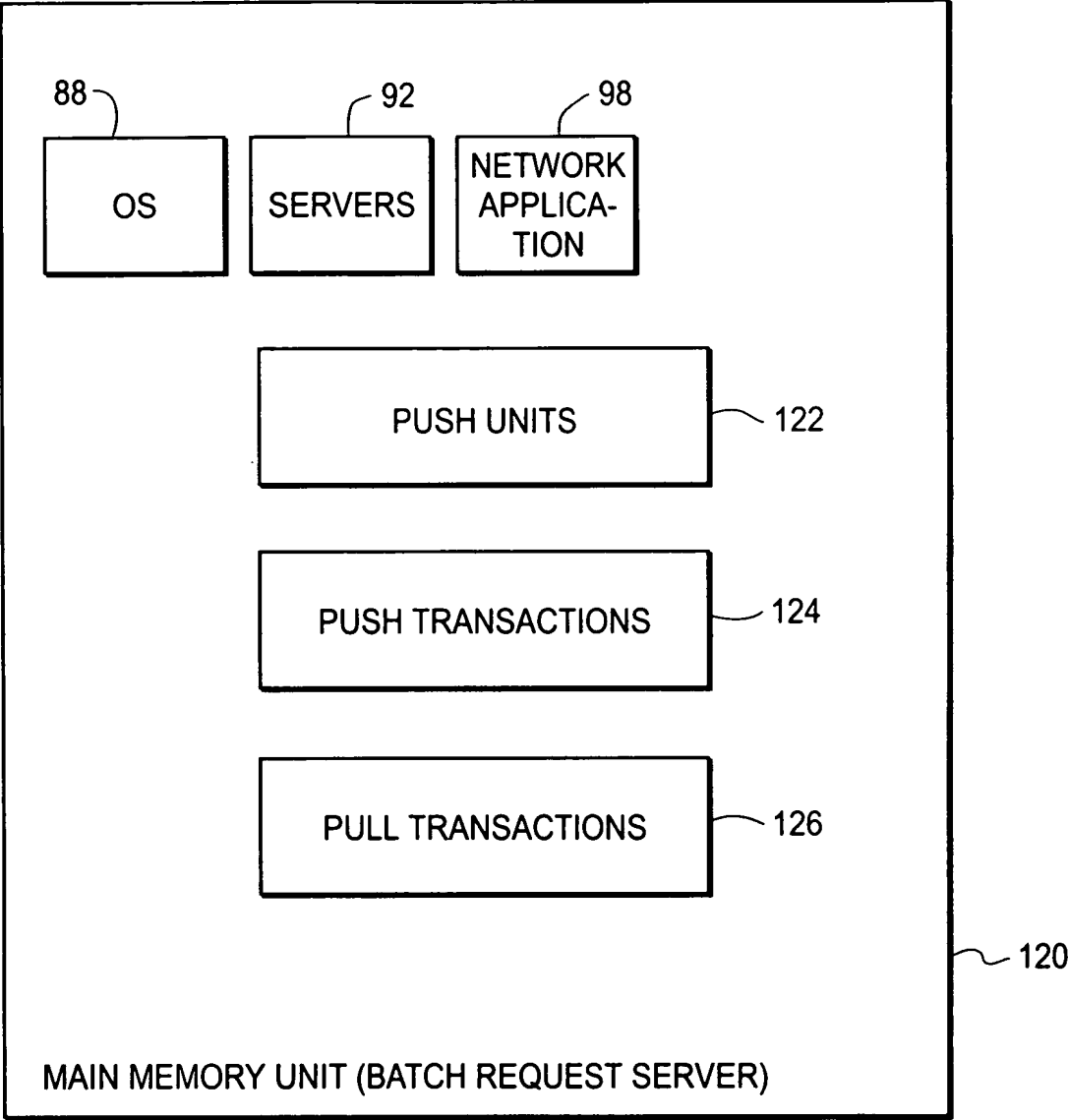


FIG. 6

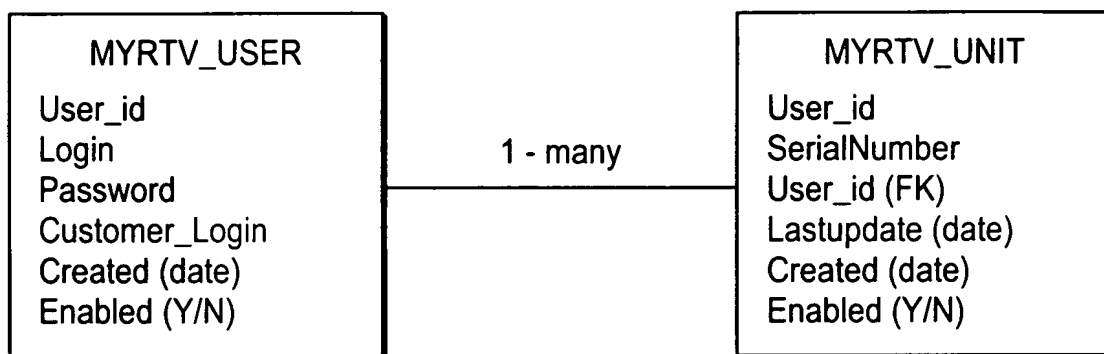


FIG. 7

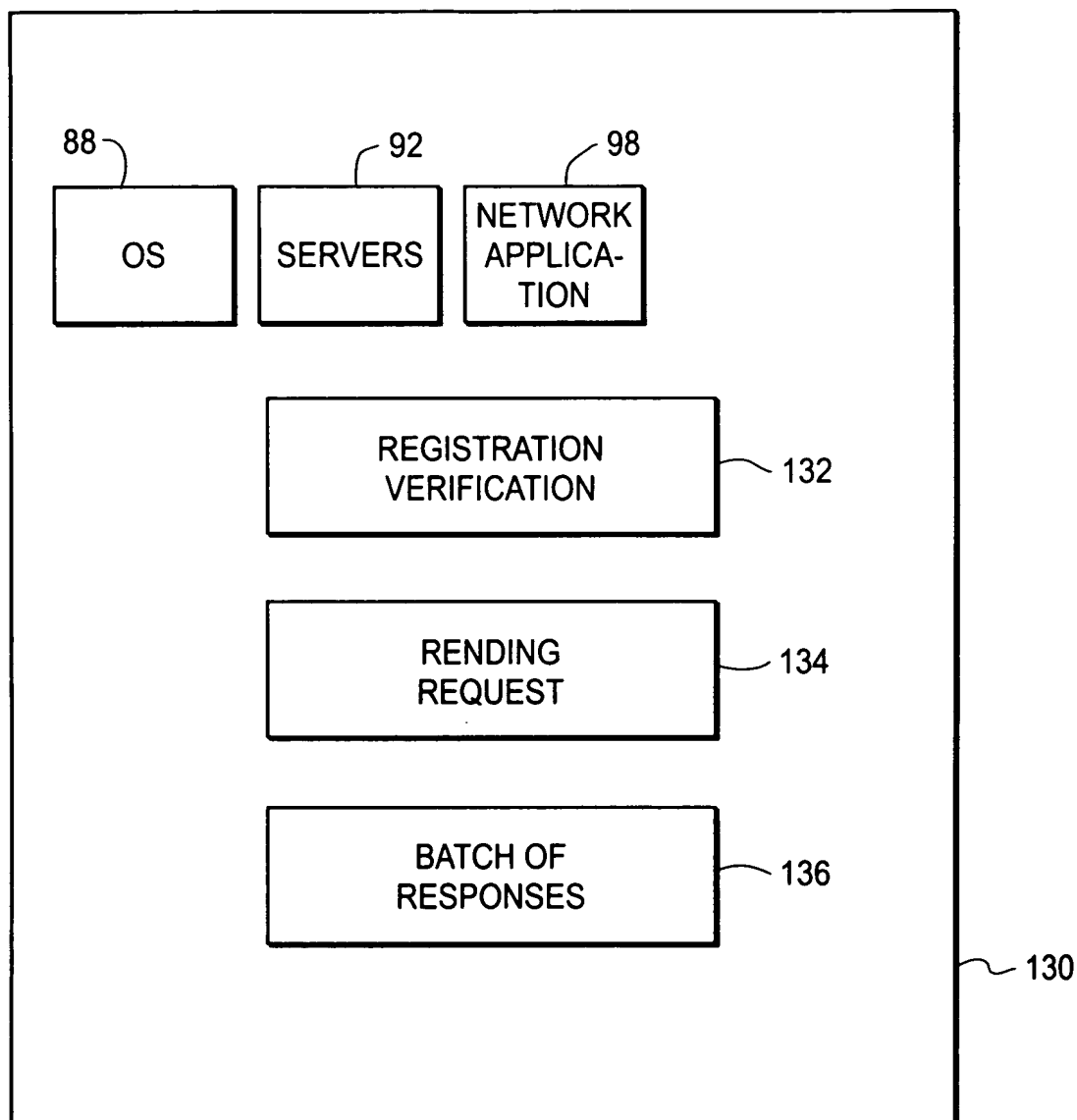


FIG. 8

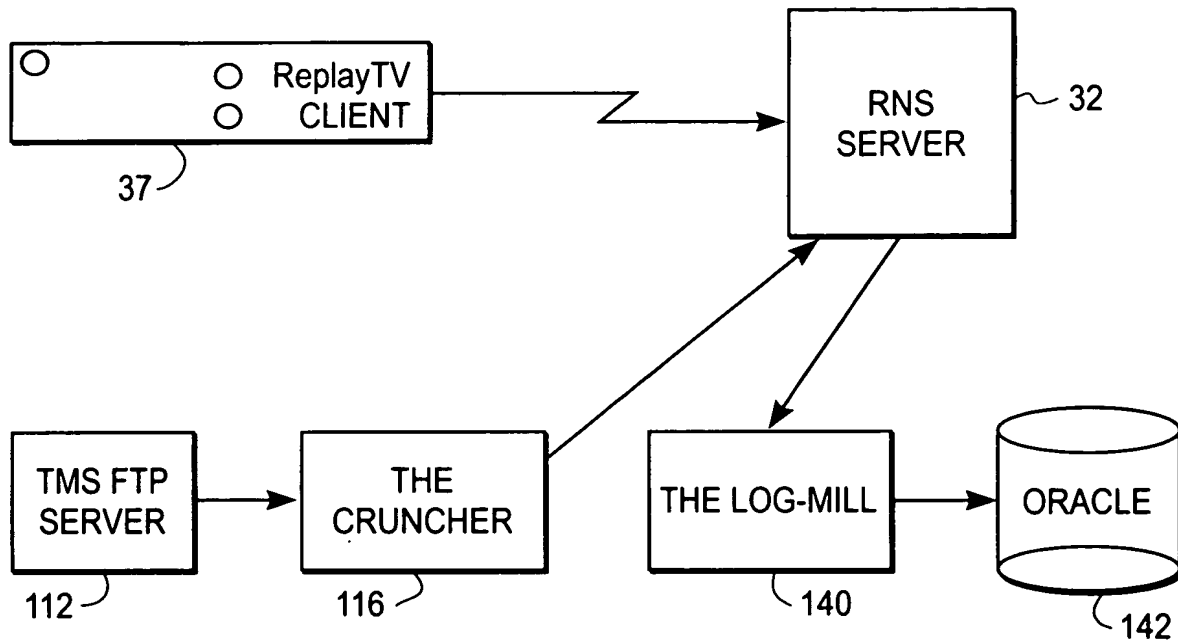


FIG. 9

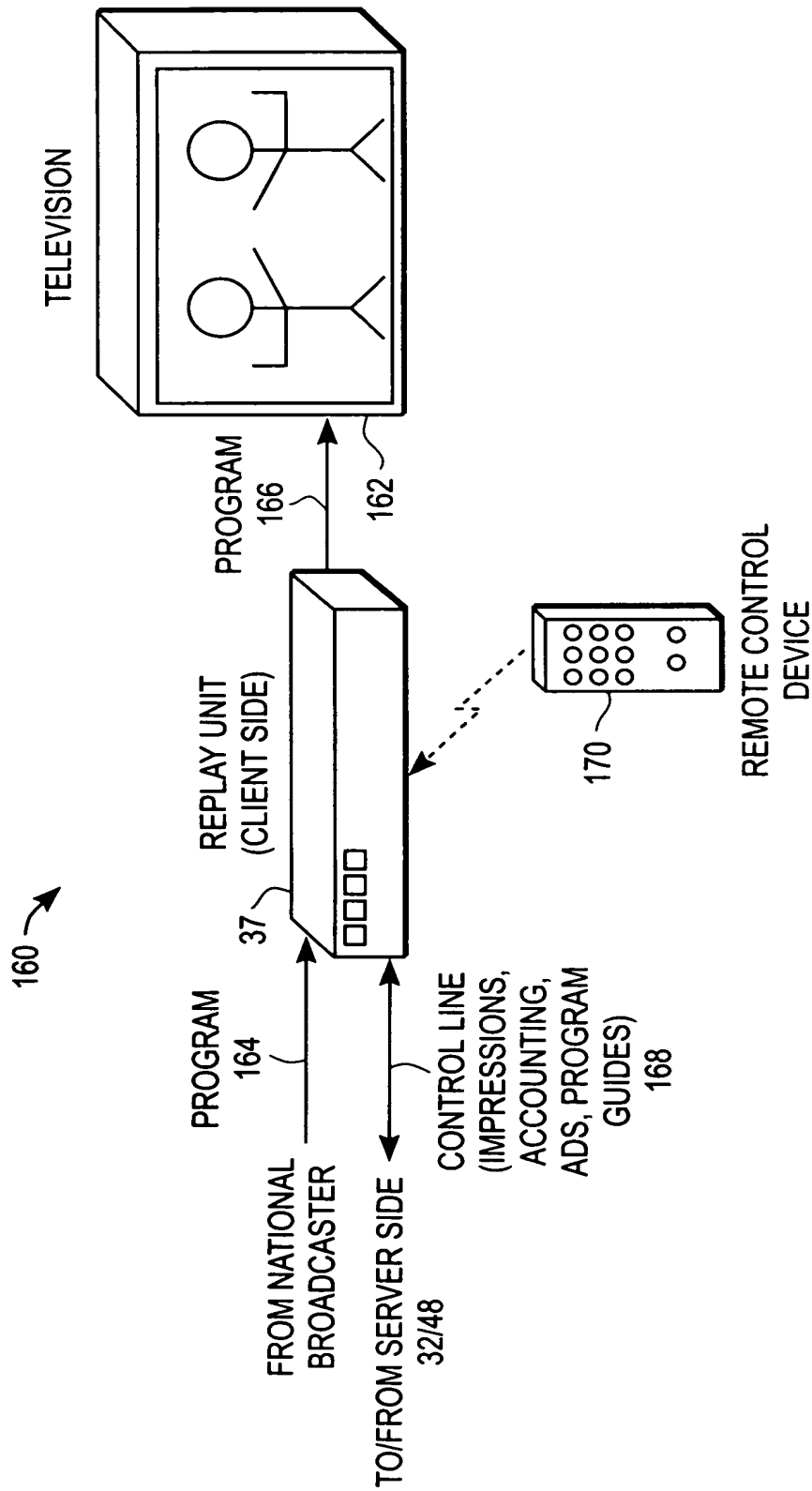


FIG. 10

my **r** replaytv®

marketing/promotional information

user name:

password:

☐ remember my password [I forgot my password](#)

Are you a new user to the myreplaytv webpage?

[Help](#) [Contact us](#)

182

184

180

FIG. 11

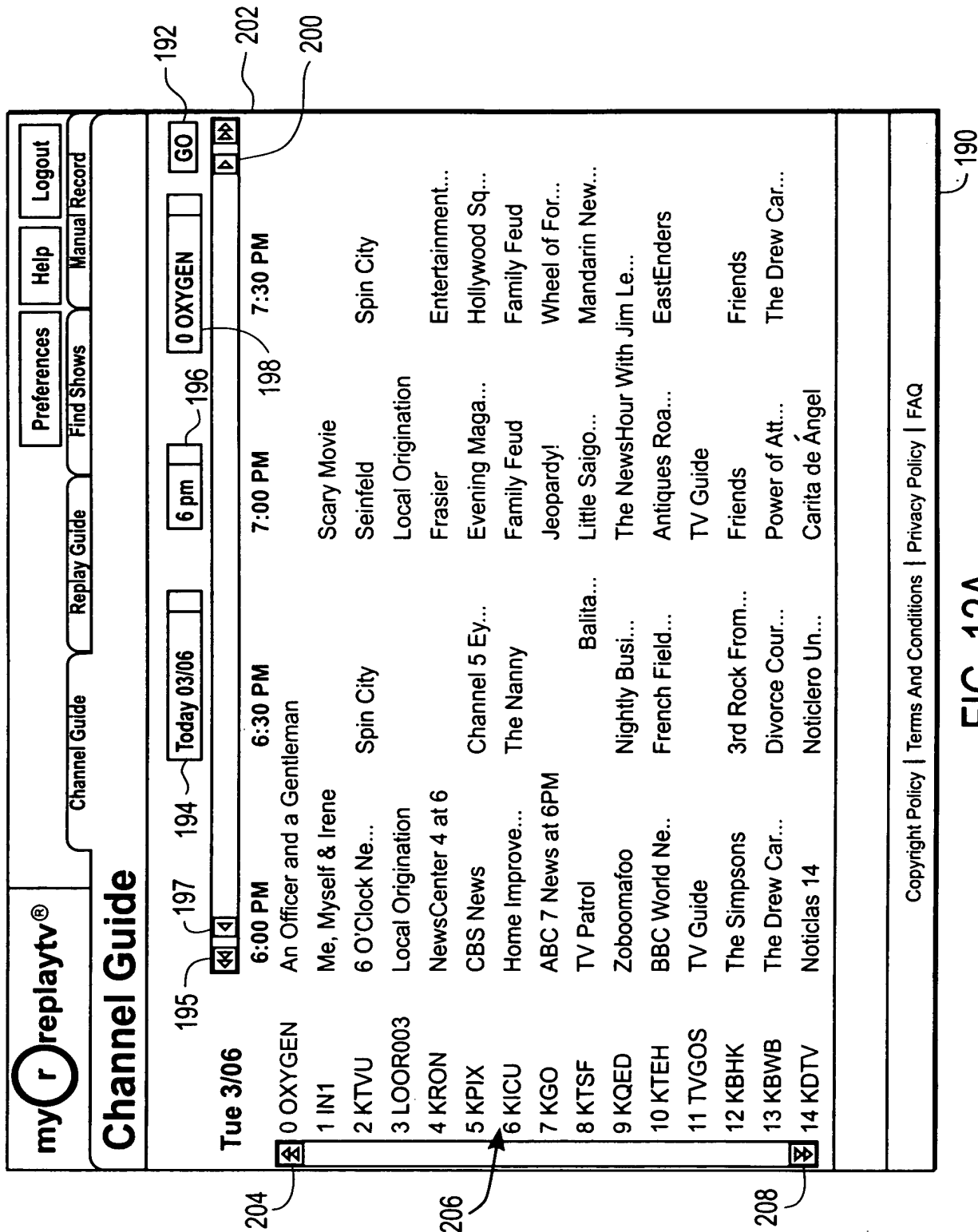


FIG. 12A

View description	2 KTVU ▼	yesterday 8/17	4 pm ▼	1-15 ▼
Record ●	4 KRON	today 8/18 ▼	5 pm	16-30
Record all episodes ●●	5 KPIX	Sat 8/19	6 pm	31-45
Record - change options	6 FAM	Sun 8/20	7 pm	46-60
Find all episodes	7 KGO	Mon 8/21	8 pm	61-75
Close	8 KRCB	Tue 8/22	9 pm	76-90
	9 KQED	Wed 8/23	10 pm	91-105
	10 KDTV	Thu 8/24	11 pm	106-120
	11 KICU	Fri 8/25	12 am	121-145
	12 KBHK			146-
	13 KBWB			
	14 CNN			
	15 DISN			
	16 CIV			

View description	Record ●
Record all episodes ●●	Record future episodes
Record - change options	Record + change options
Find all episodes	Find all episodes
Close	Why can't I record?
	Close

View description	Find all episodes
Turn off recording	Change record options
Close	

FIG. 12B

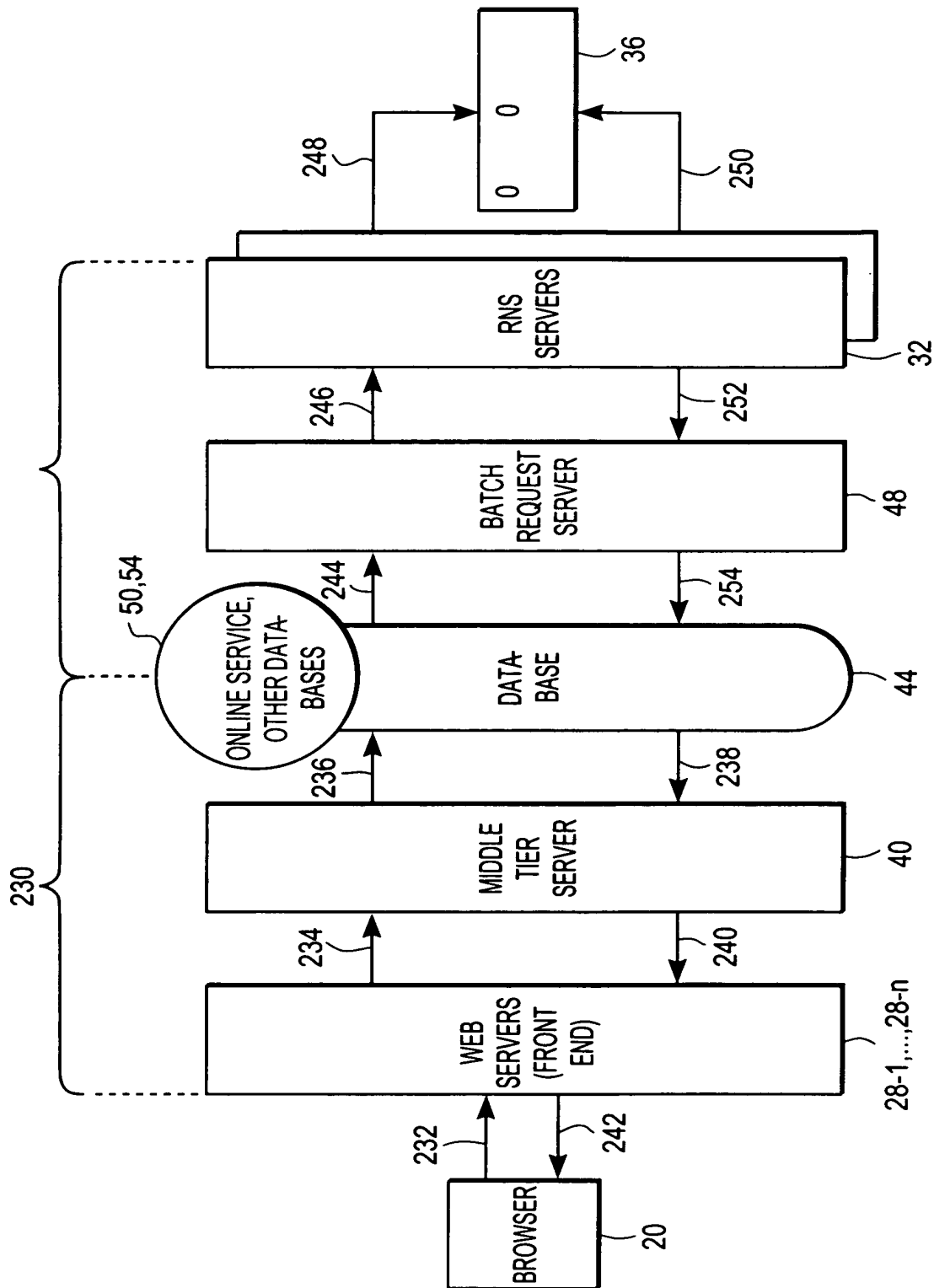


FIG. 13A

SEQUENCE DIAGRAM

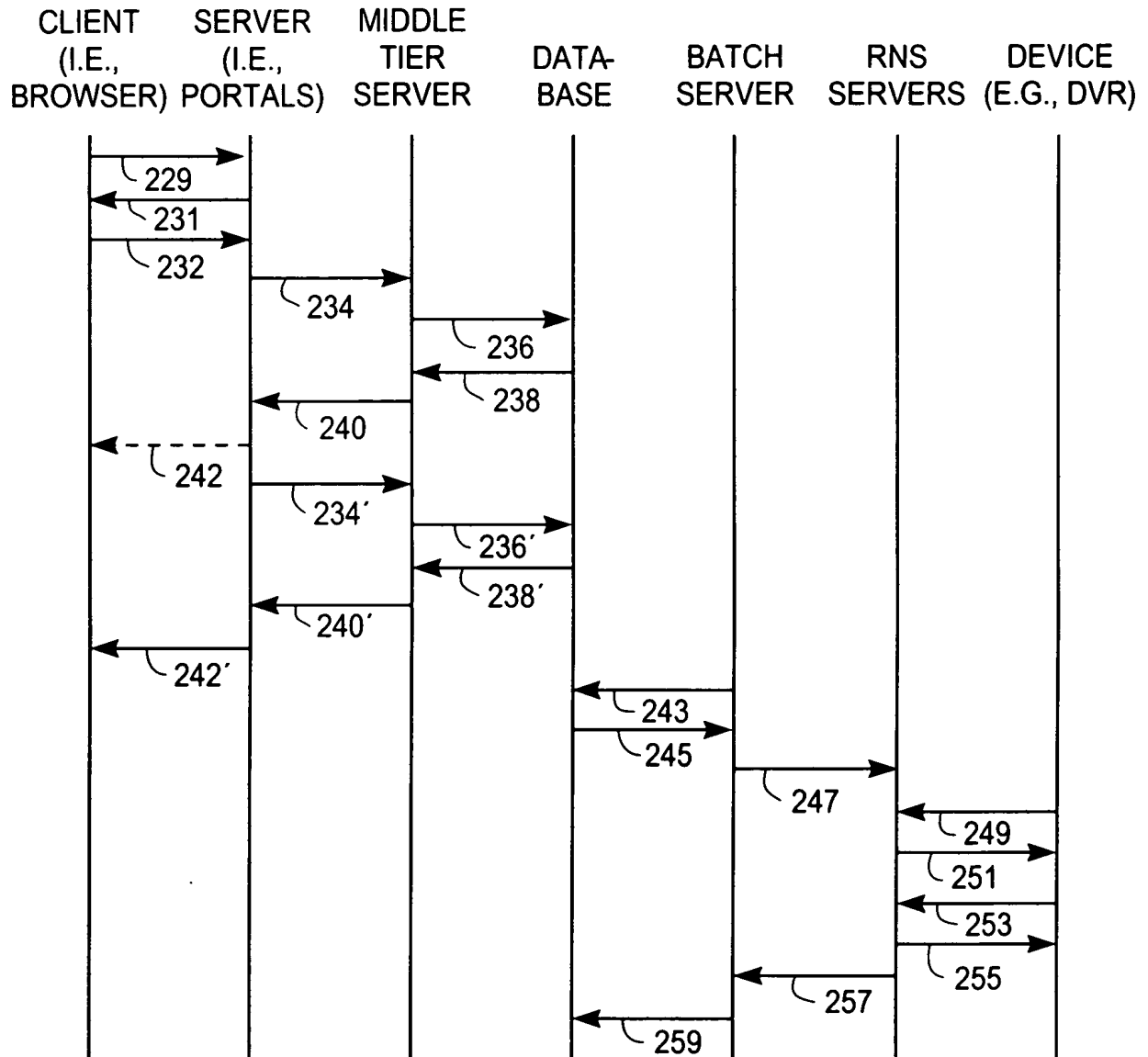


FIG. 13B

API Routine	Function
CreateAccount	Creates an account for a new user based on the information received
Login	Tries to authenticate a user based on the input username and password combination
GetProfile	Returns the profile of the user and his units based on his userid
AddRequest	Adds a request to the unit's list of pending requests based on a set of request parameters, and returns the full status of the unit and of the pending requests, including those for recording specific show(s) and deleting recorded show(s)
DeleteRequest	Delete a request from the user list of pending requests
GetReplayGuide	Returns the Replay Guide of the unit as saved in the appropriate database for the specified unit
GetChannelLineUp	Returns the channel lineup of the unit based on the unit's settings
ChangePassword	Lets the user change his password
GetEPG	Returns the current electronic program guide for the unit based on the settings of the unit
ShowGuide	Returns detailed information about a specified show or search show details for particular shows based on criteria given as parameters

FIG. 14

API Routine	Input Parameters	Output Files (Corresponding XML Elements)
CreateAccount	firstname, lastname, address1, address2, city, state, zipcode, serial number, login, password, creator	ACCOUNT.XML REPLAYERERROR.XML
Login	login, password	ACCOUNT.XML REPLAYERERROR.XML
GetProfile	userid	PROFILE.XML (USERINFO, UNITINFO-I) REPLAYERERROR.XML
AddRequest	userid, unitid, reqtype(none, show, theme, update) reqtype=show: showtime(single, repeat, manual single, manual repeat), headendid, tmsid, device, starttimegmt, name, durationinminutes, inputsource, quality, guaranteedrecord, numepisodes, weekdayflags, earlystartminutes, showguarminutes reqtype=theme: searchterm, searchflags, suzukiid, durationinminutes, quality, guaranteedrecord reqtype=update: updatetype(deleteshow, preserveshow, deletechannel), channelid, showid	UNITSTATUS.XML (UNITINFO, REQUESTSTATUS-I) REPLAYERERROR.XML *Note: REQUESTSTATUS Result=(PENDING, SENT, SUCCESS, GENERAL FAILURE, SCHEDULEFAILURE, ROOMFAILURE)
DeleteRequest	userid, unitid, requestid	DELETERESULT.XML, REPLAYERERROR.XML
GetReplayGuide	userid, unitid	GUIDE.XML (REPLAYCHANNEL-I), REPLAYERERROR.XML *Note: REPLAYCHANNEL Type=(SINGLE, SINGLEMANUAL, REPEAT, REPEATMANUAL, THEME, THEMEXACT, ZONE)
GetChannelLineUp	userid, unitid	CHANNELLINEUP.XML (CHANNEL-I), REPLAYERERROR.XML
ChangePassword	userid, currentpassword, newpassword	ACCOUNT.XML, REPLAYERERROR.XML
GetEPG	userid, unitid, starttimegmt, durationinminutes, startchannel, channelcount	XML file based on tvguide.dtd & tvprograms.dtd REPLAYERERROR.XML
ShowGuide	userid, unitid, query, start, count, levelofdetail *Note: query keywords include actor, advisory, desc, mpaarating, title, etc.	XML file based on tvguide.dtd & tvprograms.dtd REPLAYERERROR.XML

FIG. 15

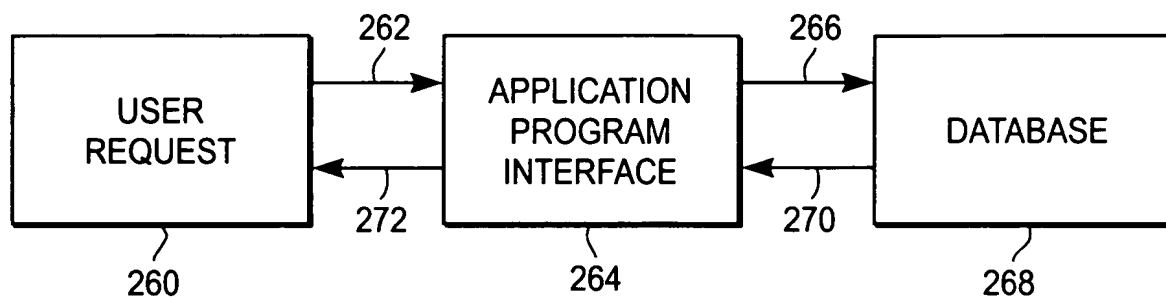


FIG. 16A

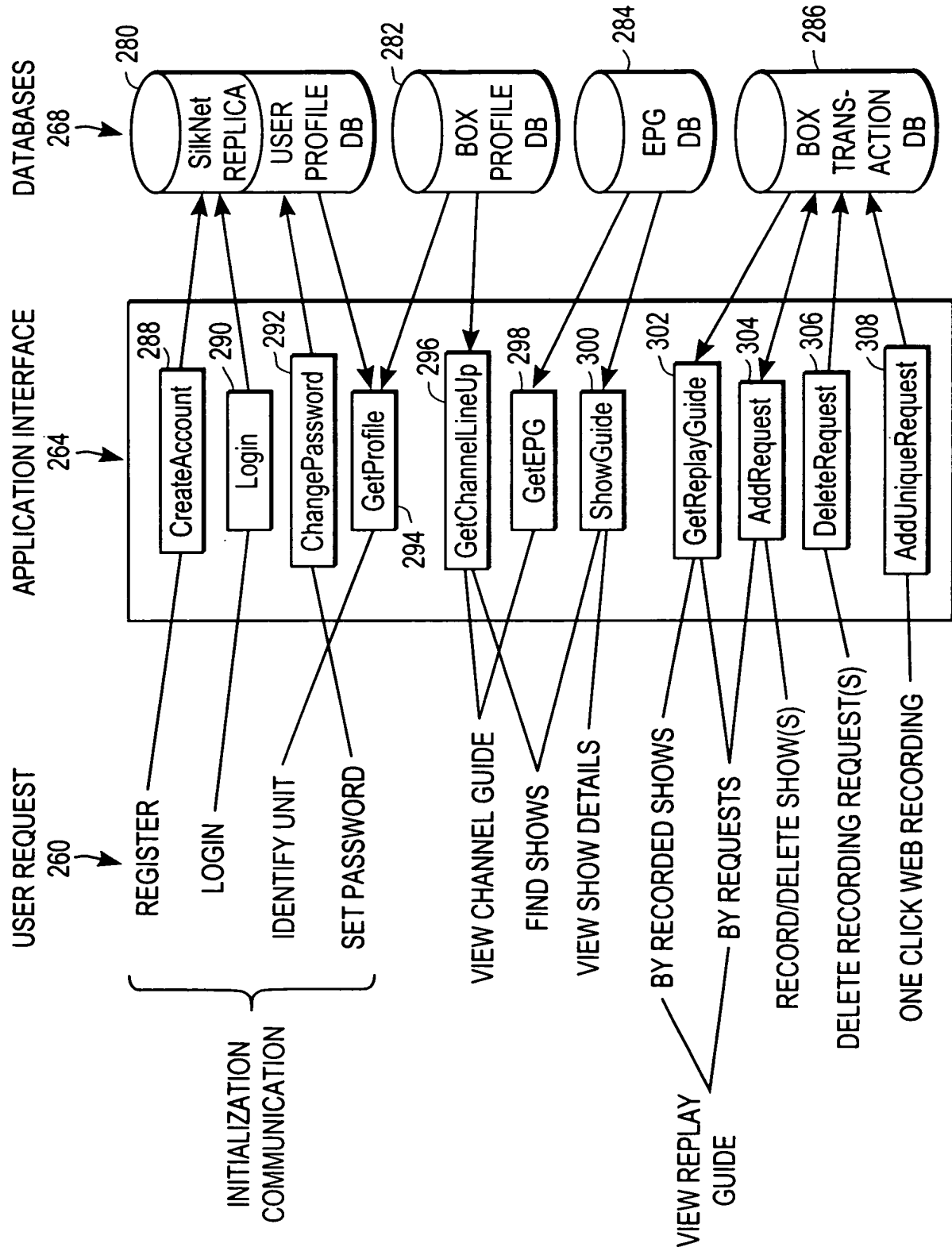


FIG. 16B

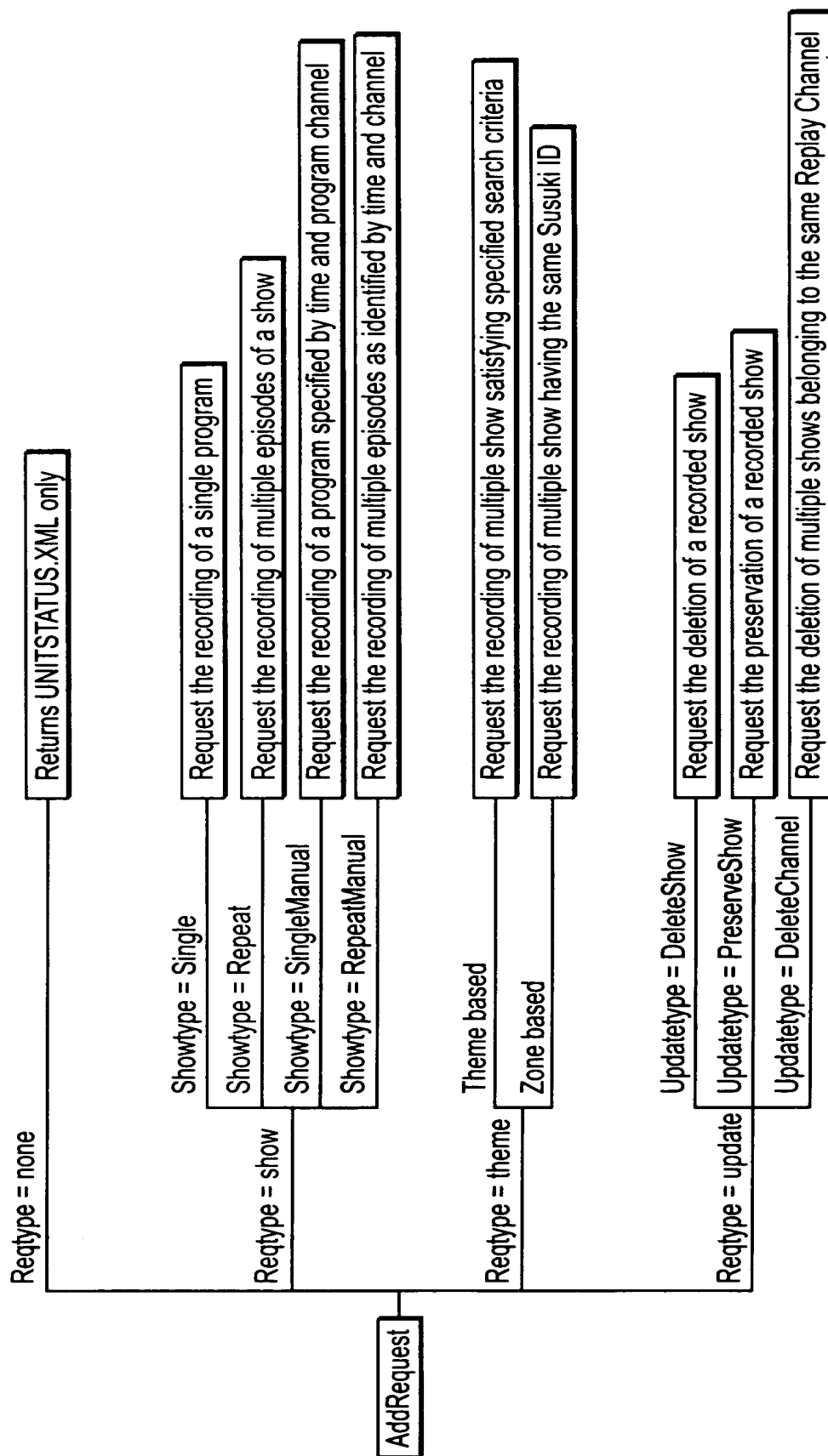
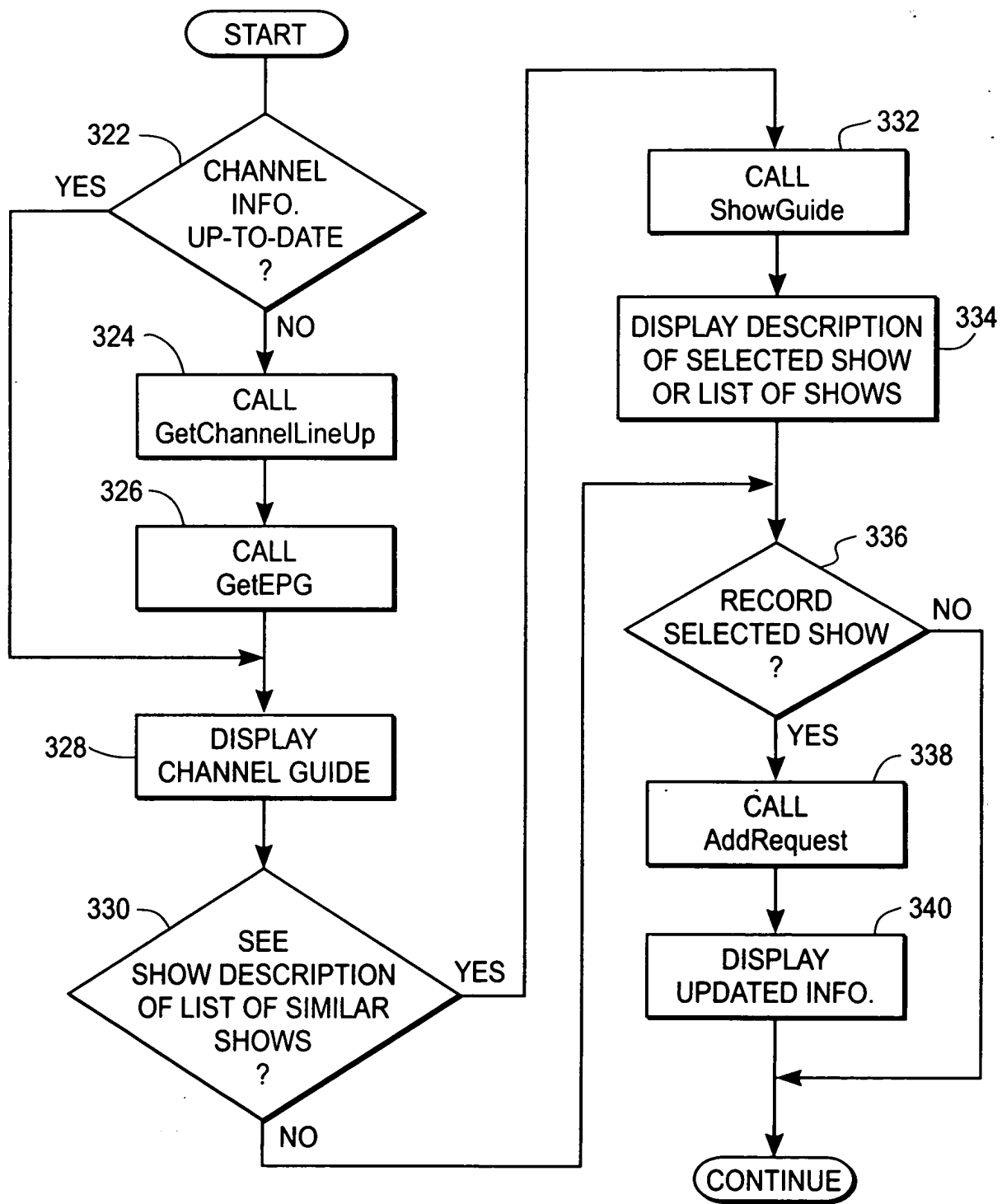


FIG. 17



320

FIG. 18

my[®]r replaytv[®]

Replay Guide

Replay Shows

Replay Channels

Channel Guide

Replay Guide

Find Shows

Preferences

Help

Logout

Manual Record

Review and edit your one time and recurring ReplayTV requests

Delete Selected Channels

Channel	Details	Status	Request Date
<input type="checkbox"/> A Fistful of Dollars	This single record Replay channel was scheduled to record A Fistful of Dollars from Channel 21 (TBS) on Sun, 02/18 at or around 7:00AM - 9:00AM. Guaranteed at EXTENDED quality. Nothing else is scheduled to record.		02/18
<input type="checkbox"/> Blown Away	This single record Replay channel was scheduled to record Blown Away from Channel 42 (USAP) on Tue, 01/16 at or around 9:00PM - 11:30PM. Guaranteed at EXTENDED quality. Nothing else is scheduled to record.		01/16
<input type="checkbox"/> Cantonese News	This show-based Replay channel will continuously record the 1 most current episode(s) of Cantonese News occurring every (Sun, Mon, Tue, Wed, Thu, Fri, Sat) on Channel 8 (KTSF) at or around 8:00PM - 9:00PM. Guaranteed at EXTENDED quality.		02/28
<input type="checkbox"/> Captain January	This single record Replay channel was scheduled to record Captain January from Channel 49 (AMC) on Tue, 01/09 at or around 3:30AM - 5:00AM. Guaranteed at EXTENDED quality. Nothing else is scheduled to record.		01/09

FIG. 19A

[myr replaytv®](#)
[Channel Guide](#)
[Replay Guide](#)
[Preferences](#)
[Help](#)
[Logout](#)

Replay Guide

Replay Shows
Replay Channels

Review and edit recordings saved to your ReplayTV unit

Channel	Show Title/Episode	Date/Time	Station	Duration	Size
A Fistful of Dollars	<input type="checkbox"/> A Fistful of Dollars	02/18 7:00AM	21 TBS	(2h)	6.46%
Blown Away	<input type="checkbox"/> Blown Away	01/16 9:00PM	42 USAP	(2h 30m)	8.07%
Captain January	<input type="checkbox"/> Captain January	01/19 3:30AM	49 AMC	(1h 30m)	4.84%
Firewalker	<input type="checkbox"/> Firewalker	02/27 8:00PM	21 TBS	(2h)	6.46%
On Deadly Ground	<input type="checkbox"/> On Deadly Ground	01/07 9:00PM	4 KRON	(2h)	6.46%
Platoon	<input type="checkbox"/> Platoon	02/04 8:00PM	37 TNT	(2h 30m)	8.07%
The Bridge on the River Kwai	<input type="checkbox"/> The Bridge on the River Kwai	12/24 8:00AM	42 USAP	(3h 30m)	11.30%
The Little Princess	<input type="checkbox"/> The Little Princess	12/26 4:15AM	49 AMC	(1h 45m)	5.65%
The Trouble With Harry	<input type="checkbox"/> The Trouble With Harry	12/18 1:05PM	49 AMC	(1h 55m)	6.19%
Welcome to ReplayTV	<input type="checkbox"/> Welcome to ReplayTV	09/08 10:49AM		(15m)	2.42%

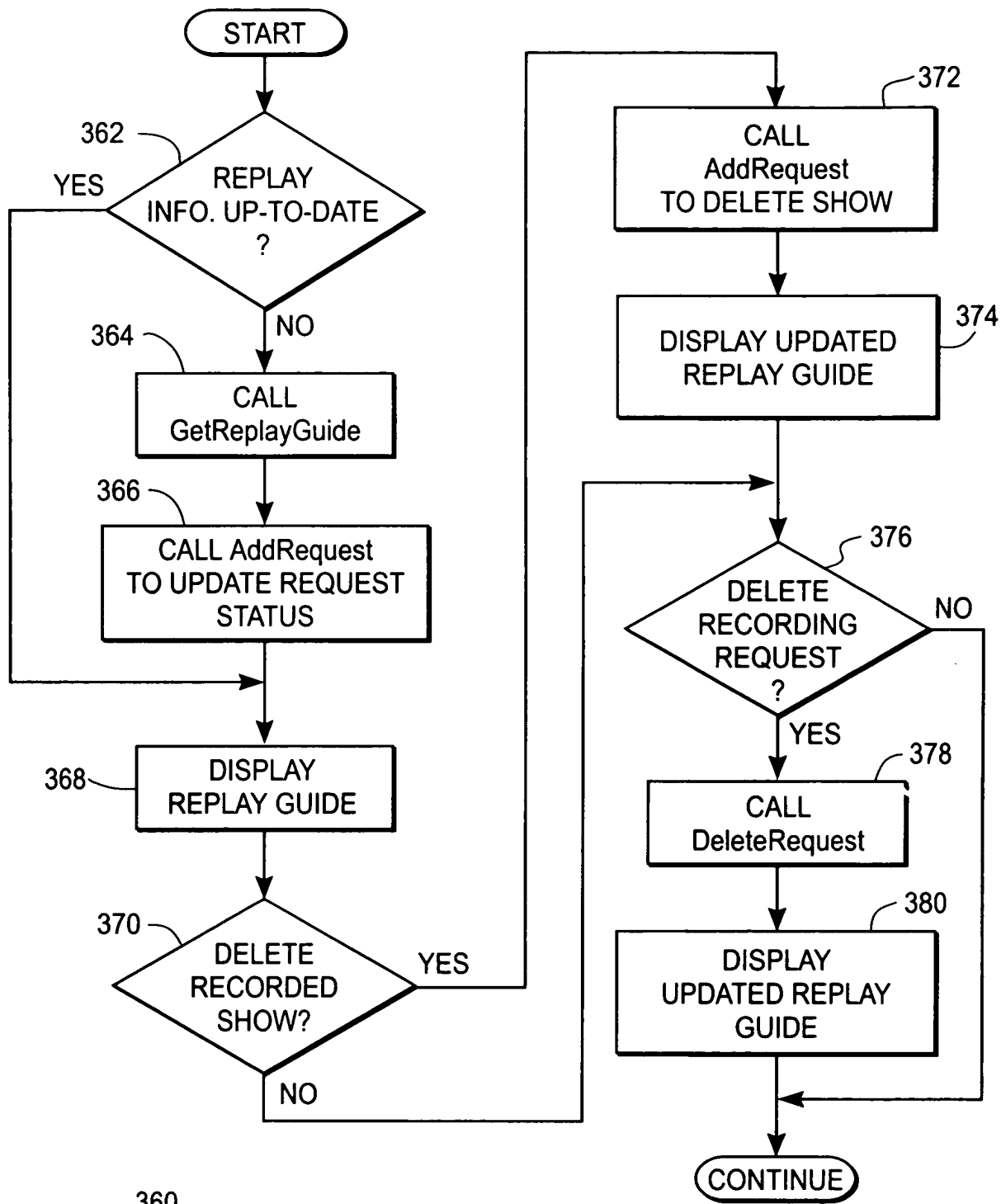


FIG. 20

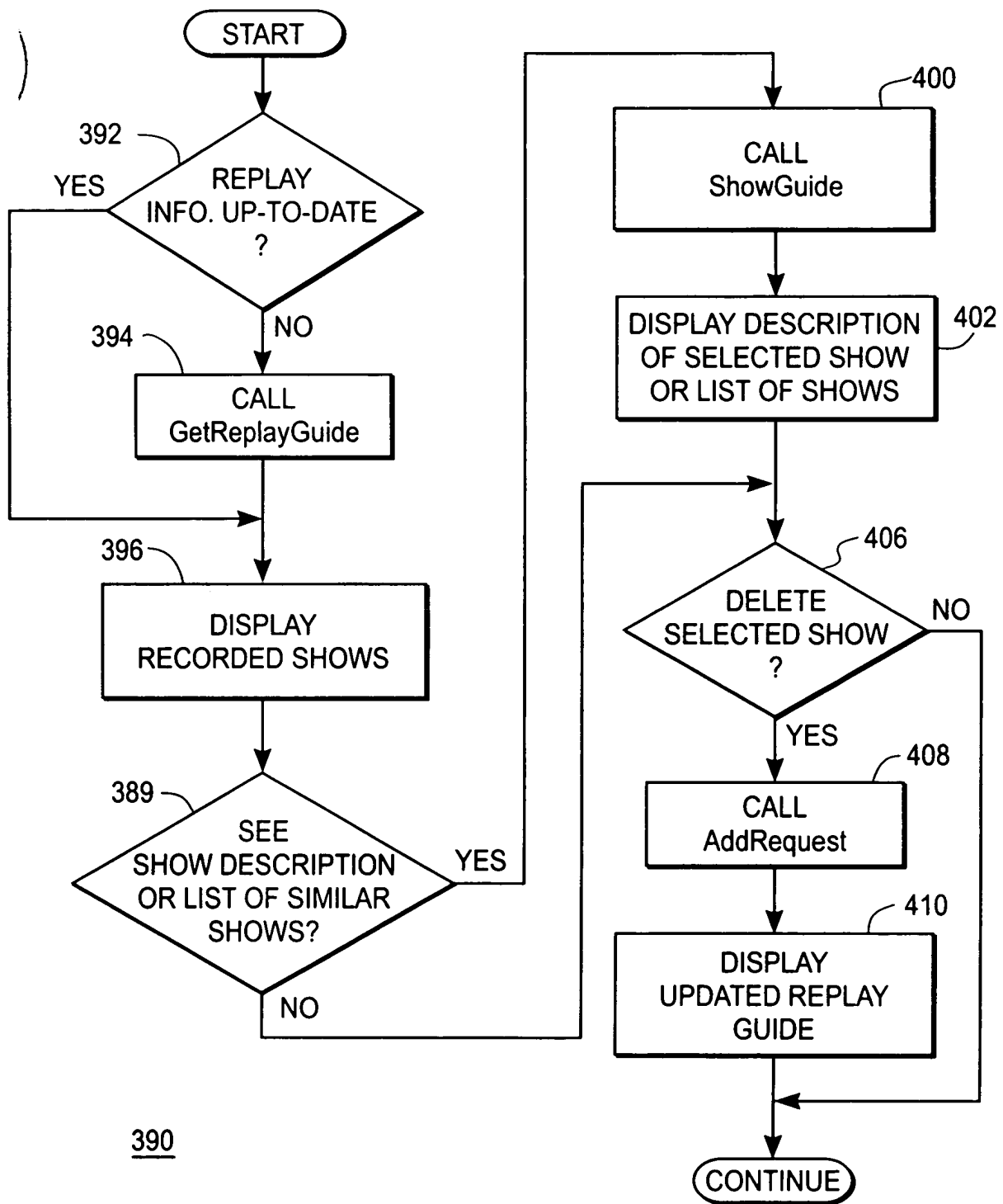


FIG. 21

my[®]r replaytv[®]

Channel Guide

Replay Guide

Find Shows

Preferences

Help

Logout

Manual Record

Find Shows

Find:

Enter the word or phrase that you wish to find.

In these categories:

☒ Show Titles

☐ Actors

☒ Descriptions

☐ Directors

Find Shows

Copyright Policy | Terms And Conditions | Privacy Policy | FAQ

FIG. 22

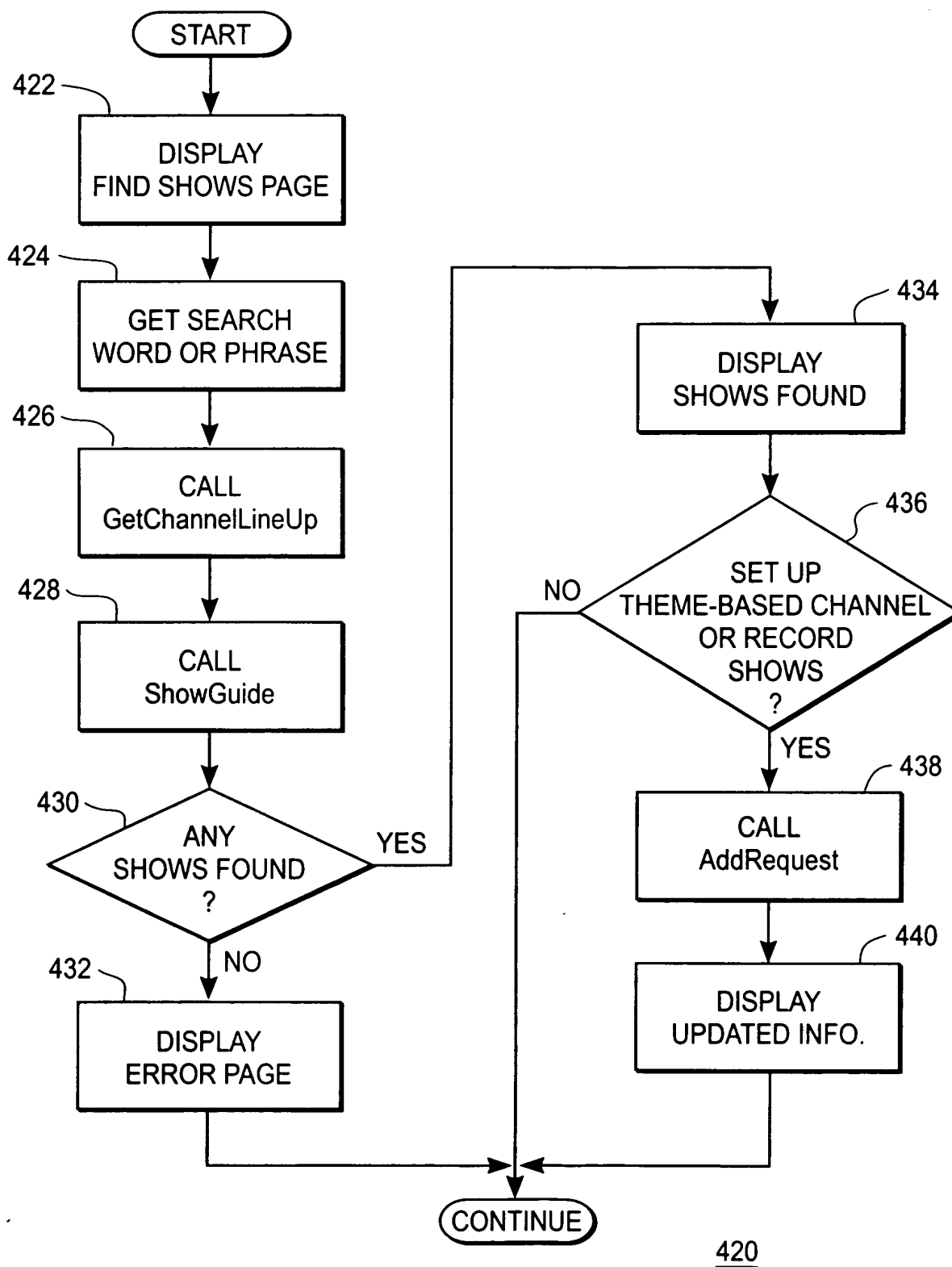


FIG. 23

my^replaytv[®]

Channel Guide

Replay Guide

Find Shows

Preferences

Help

Logout

Manual Record

Manual Record

Single Recording

Repeat Recording

Start Date

Mar ▾ 7 ▾ 2001 ▾

Start Time

▢ : ▢ ▢ AM ▾

End Time

▢ : ▢ ▢ AM ▾

Channel

0 OXYGEN ▾

Quality

Extended ▾

Guaranteed

Yes ▾

Recording duration:

▢

Submit Requests

Copyright Policy | Terms And Conditions | Privacy Policy | FAQ

FIG. 24A

my replaytv®

preferences
help
logout

Channel GuideFind ShowsManual RecordReplay Guide

Manual Record

Single RecordingRepeat Recording

3h 45m available at medium quality
as of last connection

Days

☐ Mon ☒ Tue ☐ Wed ☐ Thu ☐ Fri ☐ Sat ☐ Sun

Start Time

: :

Channel

Quality

Guaranteed

Submit Request

FIG. 24B

452

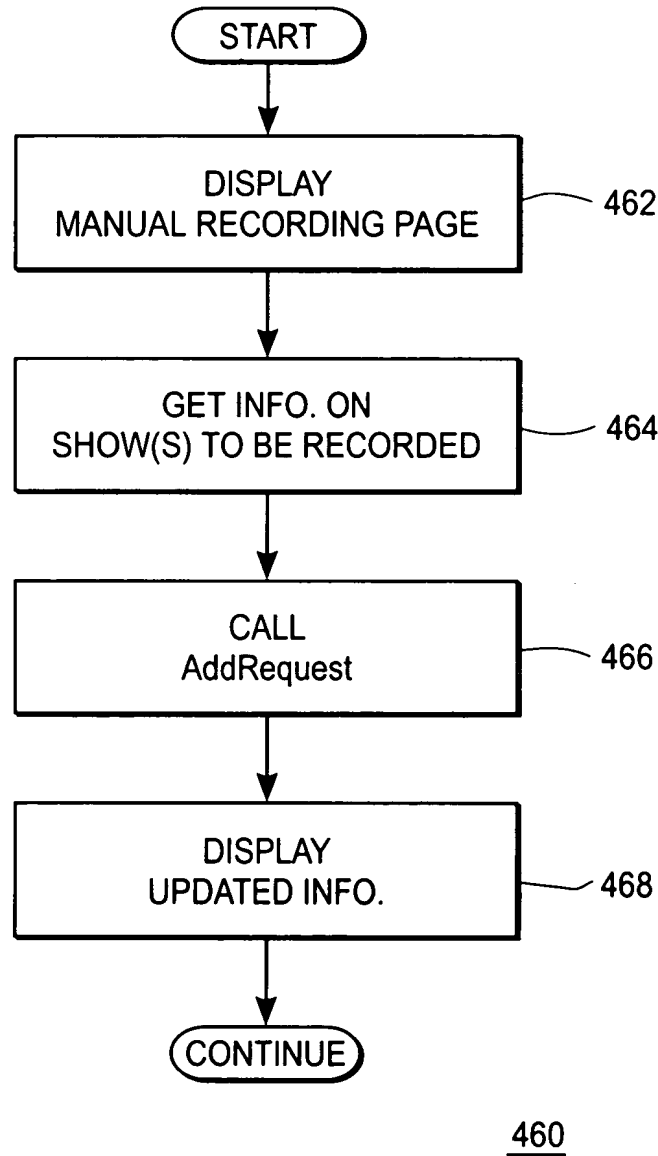


FIG. 25

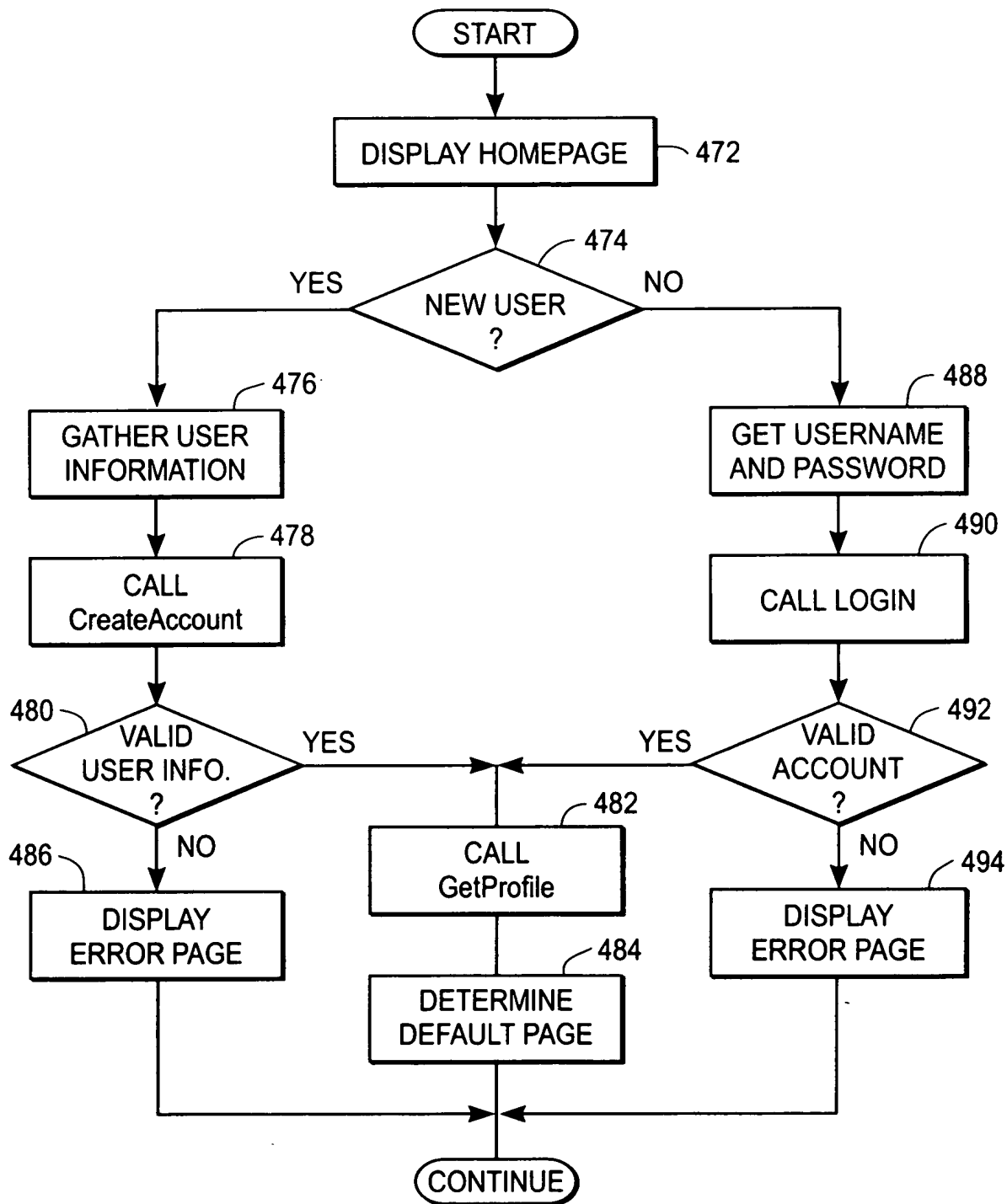


FIG. 26

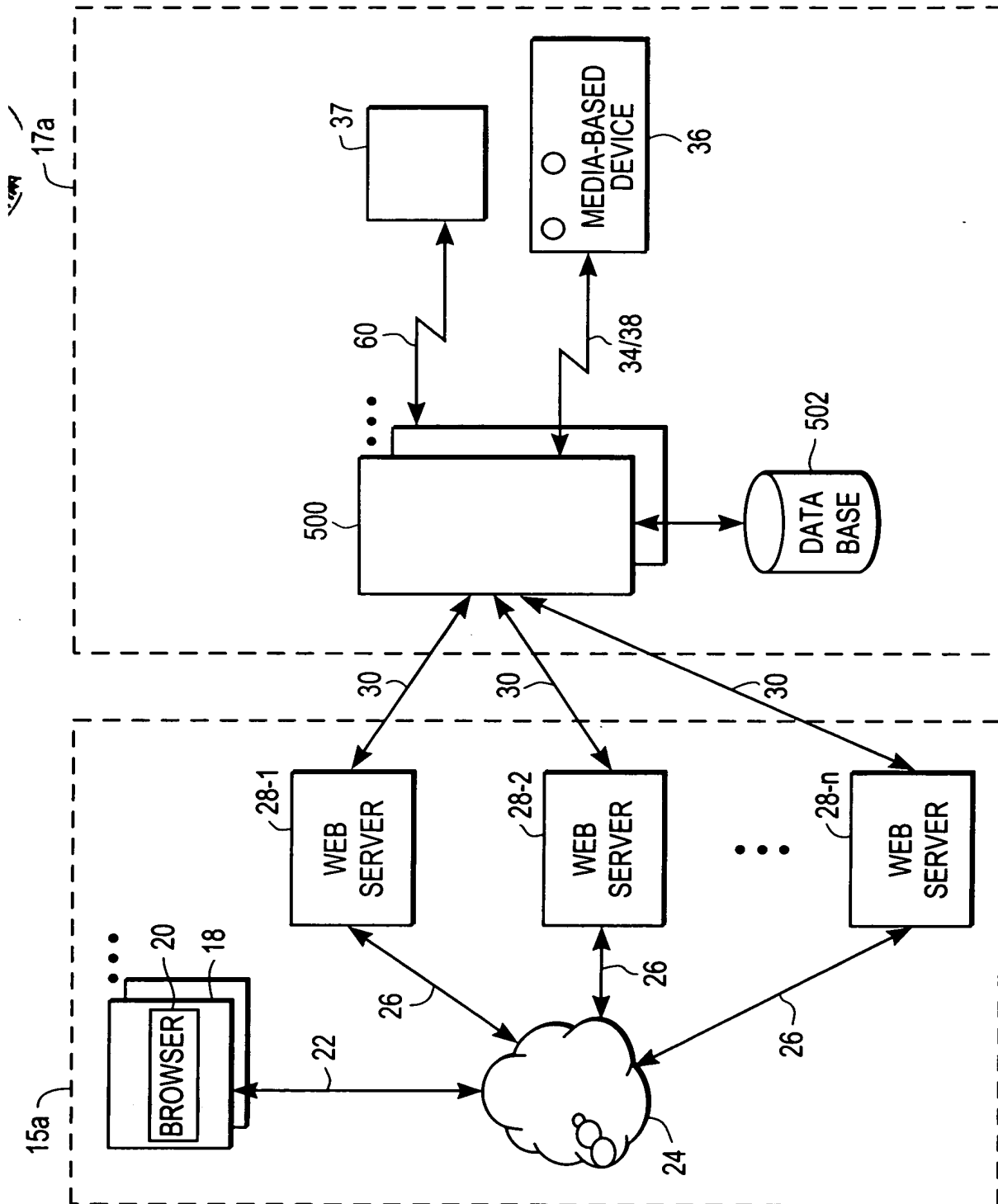


FIG. 27

19A

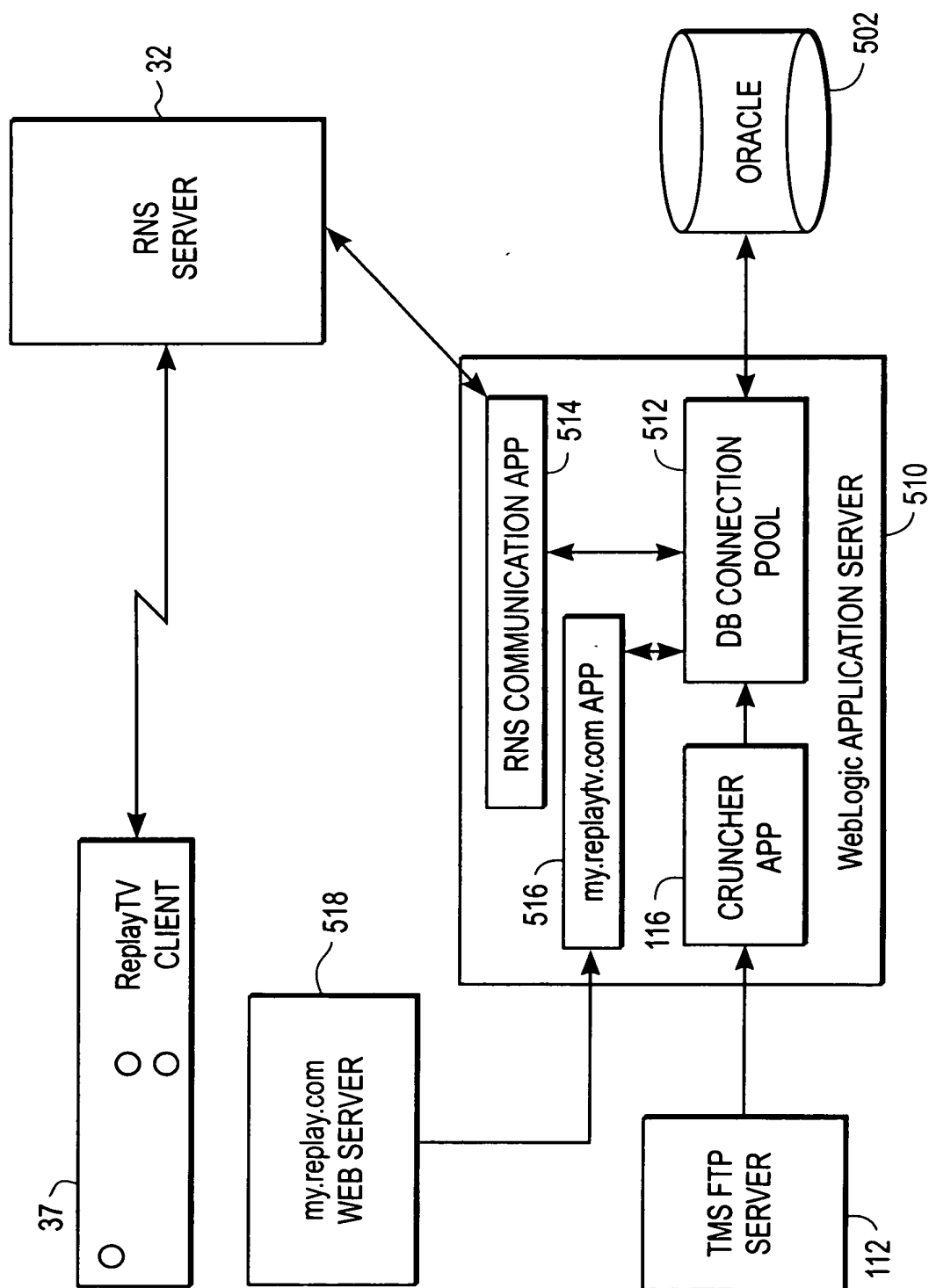


FIG. 28

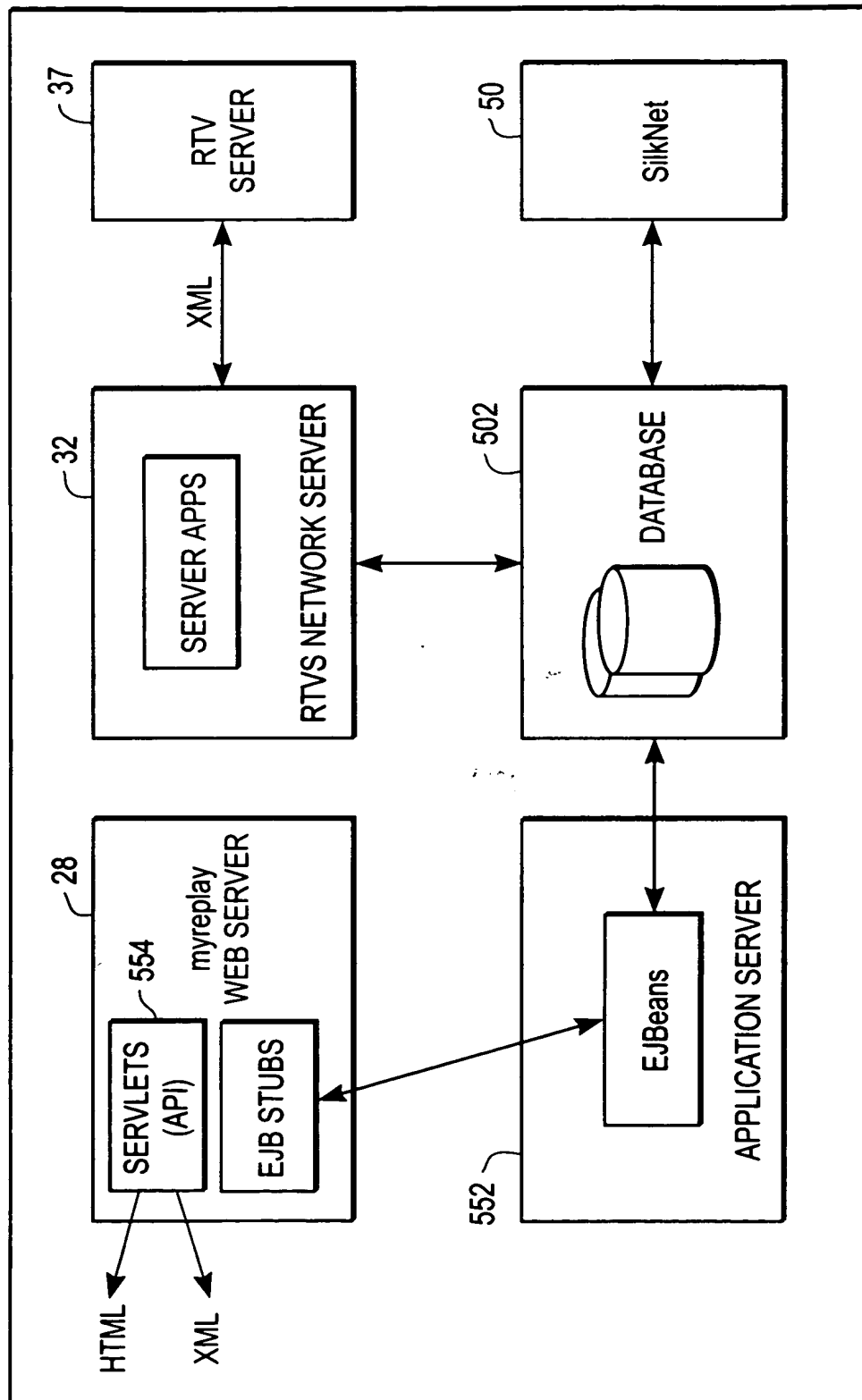


FIG. 29

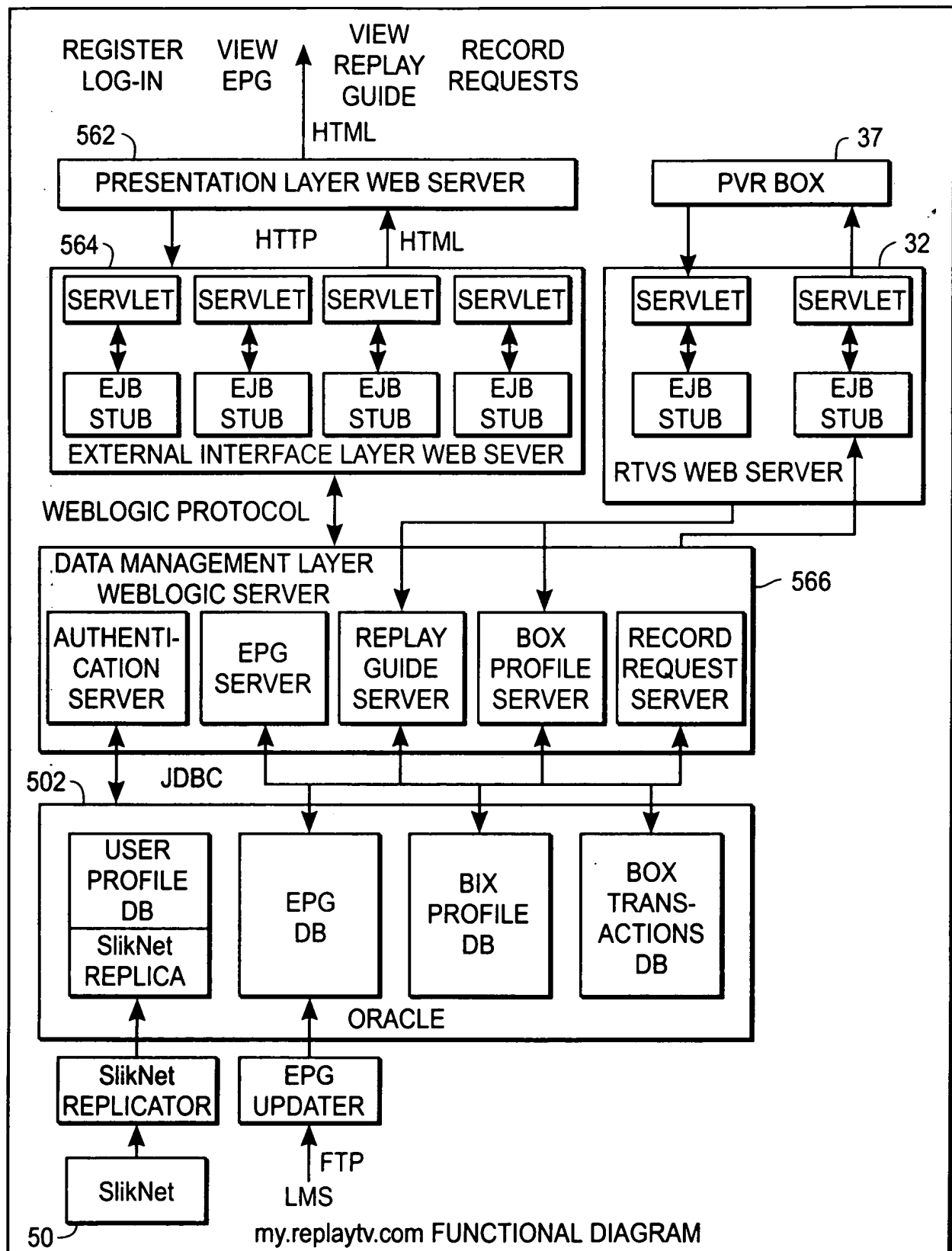


FIG. 30

560

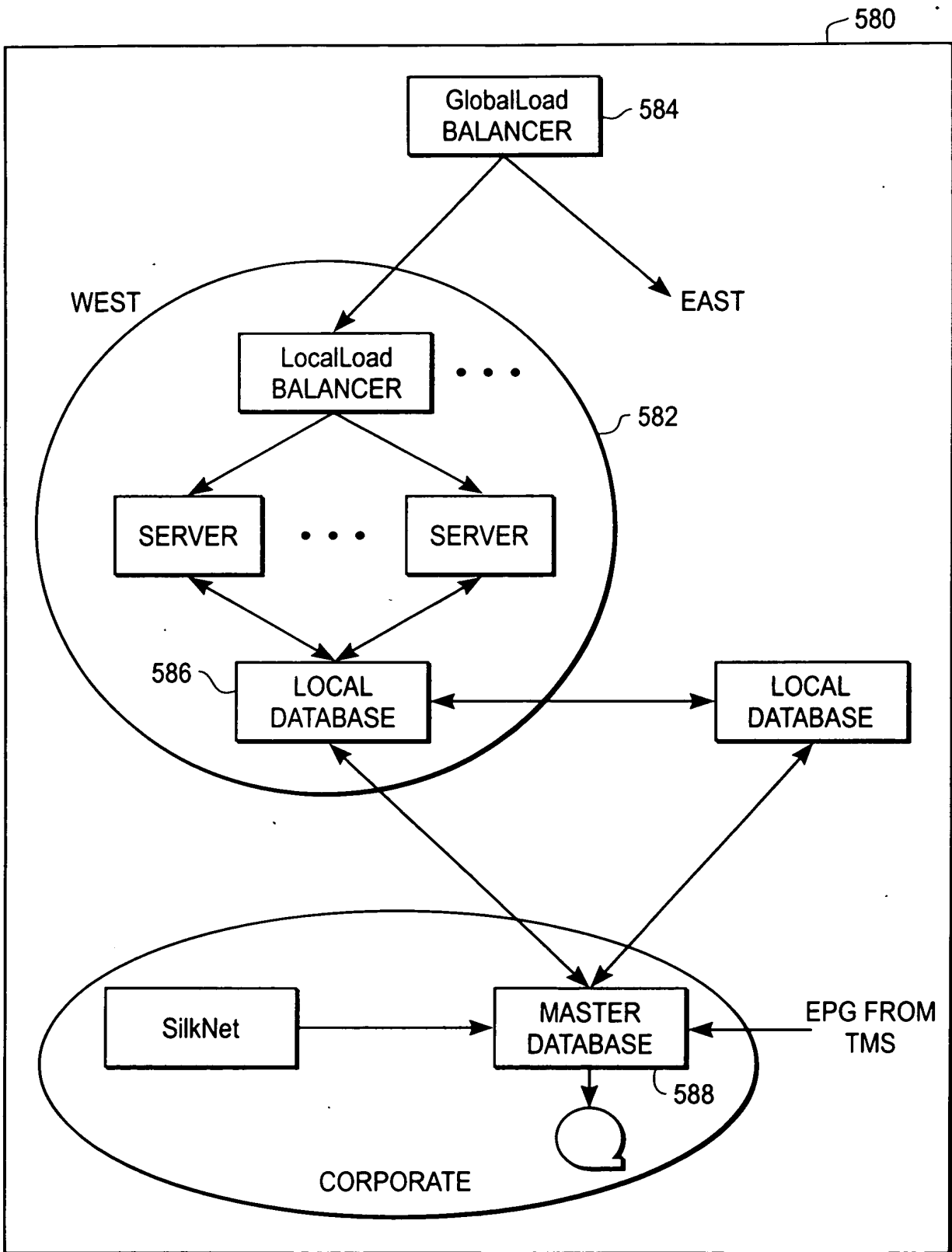


FIG. 31

604

www.fox.com

FOX

TONIGHT ON FOX

(P) 8 pm/7e That '70s Show

(P) 8:30pm/7:30e Greed: The Series

(P) 9pm/8e Ally McBeal Schedule

HERE IT COMES!

GREED IS GOOD

GREED

One of the Seven Deadly Sins was never so profitable. On tonight's '70's Theme Special Edition of Greed: The Series, only the most misery gets the largest prize in the history of game shows.

Family Guy

We know you've been hard up trying to find something to do since Family Guy went on hiatus (Brian fell off the wagon). Wait no longer! Family Guy returns Tuesday at 8:30 PM/7:30 C.

Don't miss the return of Get Real.

Wednesday at 1 PM/12C Always on FOX.com.

SHOWS

Ally McBeal
 America's Most Wanted
 COPS
 Family Guy
 Futurama
 Get Real
 Greed
 Guinness World Record
 King of the Hill
 MADD
 Malcolm in the Wild
 Party of Five
 That '70s Show
 The Pls
 The Simpsons
 The World's Funniest
 The X-Files
 Time of Your Life
 Titus
 Wildest Police Videos
 Upcoming Specials

NEVER BEEN KISS
 Rent it & Win
 Dreamy Prize

608

600

CONFIRMATION MESSAGE



Ally McBeal will be recorded on your ReplayTV system tonight at 9PM.

Thanks for using ReplayTV!



FIG. 32

CLICK

602

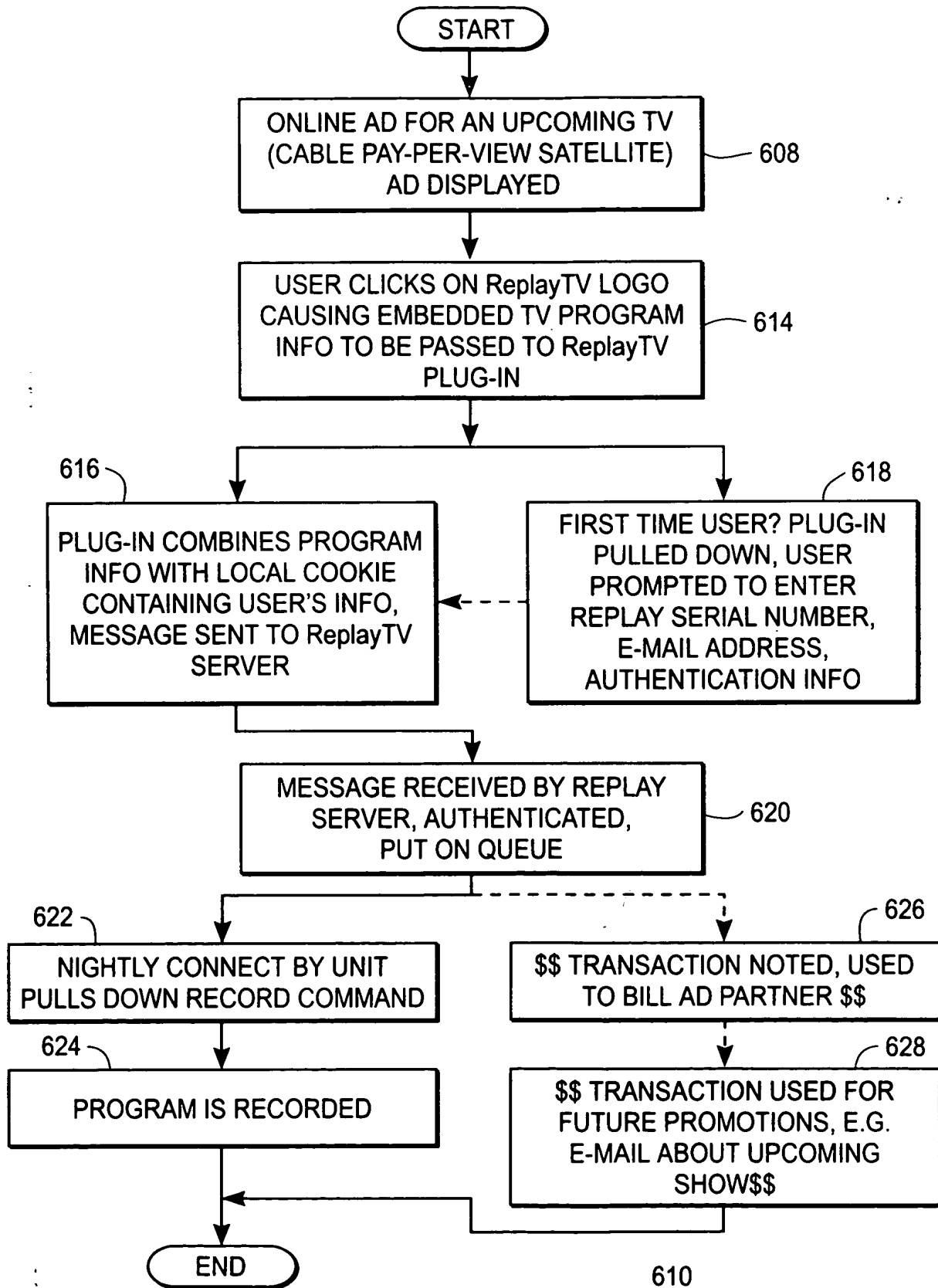


FIG. 33